EXHIBIT "A"

SCOPE OF WORK

REMOVAL OF ASBESTOS MATERIALS (ACBM)

I. GENERAL

- A. Contractor, if doing business under an assumed name i.e., an Individual, Association, Partnership, Corporation, or otherwise, shall be registered with the State of South Carolina.
- B. Contractor shall assume full responsibility for damage to City property caused by Contractor's employees or equipment as determined by designated City personnel.
- C. Contractor shall be solely responsible for the safety of Contractor's employees and others relative to Contractor's work, work procedures, material, equipment, transportation, signage and related activities and equipment. Contractor shall take all necessary safety precautions and shall comply with all applicable provisions of Federal, State and Municipal safety laws and building codes to prevent accidents or injury to persons on, about, or adjacent to the premises where the work is being performed. The City designee, or his assigned representative, may stop work if safety laws or safe work practices are not being observed.
- D. Contractor shall possess and keep in force all licenses and permits required to perform the services of this Agreement.

II. RESPONSIBILITIES OF THE CONTRACTOR

The responsibilities of the Contractor include, but shall not be limited to the following:

- A. Contractor shall provide all resources necessary and shall remove all asbestos and as outlined in Exhibit "B".
- B. Contractor shall perform all work in accordance with the specifications and requirements as contained in Exhibit "C". attached and incorporated by references.

EXHIBIT "B"

PRICE SCHEDULE

I. **GENERAL**

- A. Prices stated include all costs associated with the performance of the services specified, including materials, supervision, labor, transportation, disposal and related costs. No other charges shall be allowed.
- B. Prices stated shall be firm if not specifically notes otherwise.

II. **PRICING**

Firm lump sum	n cost to perform	all required	asbestos	abatement	services
\$					

III. INVOICING AND PAYMENT

City shall make payment to Contractor for all services performed by Contractor pursuant to this Agreement. Contractor shall submit an invoice for services rendered and City shall pay the invoiced fee within thirty (30) days after receipt of the invoice by the City.

Invoices shall be submitted to: City of Hanahan

Administration

Accounting Department 1255 Yeamans Hall Road

Hanahan, South Carolina 29410

EXHIBIT "C"

COMPREHENSIVE ASBESTOS SURVEYS
ASBESTOS ABATEMENT REMOVAL
1242 YEAMANS HALL ROAD
1240 YEAMANS HALL ROAD
5902 HOWARD STREET

COMPREHENSIVE ASBESTOS SURVEY

COMMERCIAL BUILDING 1240 YEAMANS HALL ROAD HANAHAN, SC 29410



Prepared For:

CITY OF HANAHAN Attn: Mrs. Katherine Farias 1255 Yeamans Hall Road Hanahan, SC 29410 (843) 576-5254

Performed By:



Trident Environmental Services, Inc.

Consultants in Industrial Hygiene and Safety 500 Oakbrook Lane, Suite E Summerville, SC 29485 (843) 873-3648

COMPREHENSIVE ASBESTOS SURVEY

Commercial Building 1240 Yeamans Hall Road Hanahan, SC 29410

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EXECUTIVE SUMMARY

The comprehensive asbestos survey performed by Trident Environmental Services, Inc. on September 18, 2018 of the Commercial Building located at 1240 Yearnans Hall Road in Hanahan, South Carolina did reveal the presence of asbestos containing building materials. The following summary exhibits the asbestos containing building materials (ACBM) that were identified in the inspection.

Asbestos

Description	Туре		
Transite Siding	Category II – Non Friable		
Exterior Caulk	Category I – Non Friable		
9" Floor Tile (beige)	RACM – Friable		
Floor Tile Mastic (black)	Category I – Non Friable		
Vinyl Sheet Flooring (yellow squares)	RACM – Friable		
Vinyl Mastic (black)	Category I – Non Friable		
Drywall/Joint Compound	RACM – Friable		

RACM - Regulated Asbestos Containing Material

The identified ACBM includes the item(s) listed above. All removal work of the identified ACBM should be performed by a properly trained and licensed abatement contractor prior to the planned renovation/demolition activities.



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BACKGROUND

Trident Environmental Services, Inc. was contracted by City of Hanahan to perform a comprehensive asbestos survey of the Commercial Building located at 1240 Yeamans Hall Road in Hanahan, South Carolina. The survey was performed in order to satisfy the NESHAP requirements for renovation and/or demolition. The structure is a one bedroom, one bathroom duplex constructed on foundation and consisting of approximately 800 square feet. Interior walls and ceilings are drywall with joint compound applied at the seams and patches. Floor finishes include vinyl floor tiles, vinyl sheet flooring, hardwood and carpet. Roofing material consists of asphalt shingles and felt paper. Exterior construction is wood, with wood trim, soffits, eaves doors/windows and transite siding,

Asbestos

The inspection was conducted to identify asbestos-containing building materials (ACBM) which may be disturbed during the renovation/demolition activities. The identification of ACBM will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos fibers. Identification of ACBM also complies with Title 40 Code of the Federal Regulations, Part 61, and South Carolina Department of Health and Environmental Control (SCDHEC) Regulation 61-86.1, along with Title 29 Code of Federal Regulations, Part 1926 enforced by the Occupational Safety and Health Administration (OSHA). The Asbestos Survey describes the investigative procedures utilized, results of the suspect ACBM sampled/analyzed, and recommendations regarding the structures as related to asbestos.

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ASBESTOS SURVEY

Asbestos Investigative Procedures

Trident Environmental Services, Inc. conducted an inspection for suspect ACBM on September 18, 2018 of the Commercial Building located at 1240 Yeamans Hall Road in Hanahan, South Carolina. It is our understanding that the subject structure will undergo renovation or demolition activities in the near future. The asbestos survey was performed by observing and sampling suspect building materials. Significant destructive testing was not utilized during the inspection. There is a possibility that suspect materials exist in inaccessible areas such as wall cavities and pipe chases. If any additional suspect ACBM are discovered during the course of demolition activities, bulk samples should be extracted to identify the presence, or absence, of asbestos prior to continuation of work activities.

A sampling strategy was developed to provide representative samples for analysis. Samples were then extracted from a variety of suspect ACBM. Bulk samples collected were—recorded on a Chain-of-Custody record and submitted to Trident Environmental Service Center, Inc. (TESC) a Polarized Light Microscopy (PLM) laboratory. The laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology (NIST). TESC is accredited by NVLAP for the analysis of bulk asbestos by PLM (NVLAP Lab Code: 200794-0).

The suspect materials were analyzed by trained microscopists utilizing PLM techniques coupled with dispersion staining in accordance with EPA Test Method Title 40 Code of Federal Regulations, Chapter I (1-1-87 edition), Part 763, Subpart F- Appendix A. This method identifies asbestos mineral fibers based on six optical characteristics: morphology, birefringence, refractive index, extinction angle, sign of elongation and dispersion staining colors. The laboratory analysis reports the specific type of asbestos identified (there are six asbestos minerals) and the percentage of asbestos present. The EPA and OSHA defines materials as asbestos containing if an asbestos content of greater than one percent (>1%) is detected in a representative sample.

Non-Friable Organically Bound (NOB) samples were submitted to AmeriSci Richmond Laboratory for analyses by Transmission Electron Microscopy (TEM). SCDHEC requires NOB materials with negative or trace results by PLM to be analyzed by at least one TEM. SCDHEC in accordance with ASTM E 2356-04 defines NOB materials as "materials that are not friable and that consist of fibers and other particulate matter embedded in a solid matrix of asphalt, vinyl or other organic substances." Examples of NOB materials include but are not limited to flooring materials such as vinyl floor tiles, vinyl sheet flooring, adhesives, mastics, asphalt shingles, roofing materials, glazing, caulks, and cove base.



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The EPA classifies ACBM into two categories, friable and non-friable. A friable material creates a greater health hazard due to the fact that it may be "crumbled, pulverized or reduced to powder by the forces expected to act upon it in the course of demolition or renovation operations."

Friable Asbestos material means any material containing more than one percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763 section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10 percent as determined by a method other than point counting by polarized light microscopy (PLM), verify the asbestos content by point counting using PLM.

Category I Non Friable Asbestos-Containing Material (ACM) means asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy.

Category II Non Friable ACM means any material, excluding Category I non friable ACM, containing more than one percent asbestos as determined using the methods specified in appendix A, subpart F, 40 CFR part 763, section I, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. (cement siding, transite board shingles, etc.)

Regulated Asbestos-Containing Material (RACM) means (a) Friable asbestos material, (b) Category I non friable ACM that has become friable, (c) Category I non friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The following section summarizes the sample numbers, locations, type material, asbestos type, percent of asbestos detected, present condition of the asbestos containing material, potential for disturbance, and hazard assessment ratings. The asbestos sample laboratory analyses and chain of custody records are included at the end of this report.

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Asbestos Abbreviations and Hazard Assessment Key

The EPA and SCDHEC require that confirmed ACBM is given a hazard assessment based on its present condition and potential for future disturbance. This hazard assessment is used as a tool for prioritization in future remedial actions regarding the ACBM. The following key demonstrates the criteria that make up the hazard assessment.

Present Condition

F = Friable

G = Good (very localized limited damage)

NF = Non-friable

D = Damaged (<10% distributed and/or <25% localized)

S = Significantly Damaged (≥10% distributed and/or 25% localized)

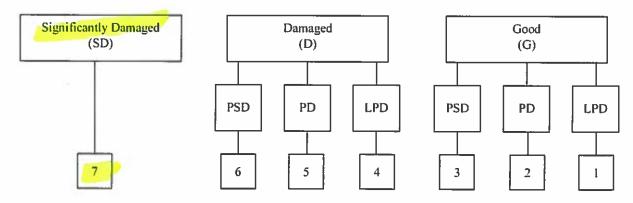
Potential for Future Disturbance

LPD = Low Potential for Disturbance (Contact, Vibration, and/or Air Erosion – low concern)

PD = Potential for Damage (Contact, Vibration, and/or Air Erosion – moderate concern)

PSD = Potential for Significant Damage (Contact, Vibration and/or Air Erosion – high concern)

Hazard Assessment



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<u>HOMOGENOUS AREA ESTIMATED FOOTAGE TABLE</u> Commercial Building – 1240 Yeamans Hall Road – Hanahan, SC

HOMOGENOUS AREA ID#	DESCRIPTION	ESTIMATED AMOUNT
01	Transite Siding	1,440 SF
02	Siding Felt	1,400 SF
03	Window Glazing	44 SF
04	Exterior Caulk	80 SF
05	Roof Shingle	960 SF
06	Roof Felt	960 SF
07	Brick Mastic (black)	8 SF
08	16" Self-Stick Floor Tile (gray stone)	100 SF
09	Vinyl Sheet Flooring (gray/white squares)	100 SF
10	12" Self-Stick Floor Tile (slate)	50 SF
11	Vinyl Sheet Flooring (green pebble)	140 SF
12	Vinyl Mastic (black)	140 SF
13	9" Floor Tile (beige)	200 SF
14	Floor Tile Mastic (black)	336 SF
15	Vinyl Sheet Flooring (yellow squares)	50 SF
16	Vinyl Mastic (black)	50 SF
17	Vinyl Sheet Flooring (beige)	50 SF
18	Vinyl Sheet Flooring (beige slate)	100 SF
19	Drywall	3,200 SF
20	Joint Compound	3,200 SF

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<u>ASBESTOS SUMMARY</u> Commercial Building – 1240 Yeamans Hall Road – Hanahan, SC

DESCRIPTION	ТҮРЕ	ESTIMATED AMOUNT	
Transite Siding	Category II - Non Friable	1,440 SF	
Exterior Caulk	Category I – Non Friable	80 SF	
9" Floor Tile (beige) / Mastic	RACM - Friable	200 SF	
Vinyl Sheet Flooring (yellow squares)	RACM – Friable	50 SF	
Vinyl Mastic (black)	Category I - Non Friable	50 SF	
Drywall/Joint Compound	RACM - Friable	3,200 SF	

RACM - Regulated Asbestos Containing Material

*PACM - Presumed Asbestos Containing Material

SCDHEC requires any non-friable material that is identified in an asbestos inspection report in a condition other than good and non-friable must be handled as a Regulated Asbestos Containing Material (RACM) and identified as friable on the asbestos abatement application. This requirement is reflected in the Asbestos Summary Table listed above.

Asbestos fibers were identified in the Transite Siding. Approximately 1,440 square feet is present and in good condition. This material is considered Category II – Non Friable Asbestos and is located on the exterior walls.

Asbestos fibers were identified in the Exterior Caulk. Approximately 80 square feet is present and in good condition. This material is considered Category I – Non Friable Asbestos and is located around exterior windows and doors.

Asbestos fibers were identified in the 9" Floor Tile (beige) and the associated Floor Tile Mastic (black). Approximately 236 square feet of each is present and is significantly damaged condition. These materials are considered RACM — Friable Asbestos and are located in Bedroom B (layer 2) and Bedroom A (layer 1). Note: Floor Tiles may be located under cabinets, appliance and non-load bearing walls.

Asbestos fibers were identified in the Vinyl Sheet Flooring (yellow squares) and the associated Floor Tile Mastic (black). Approximately 50 square feet is present and in good condition. The materials are considered RACM – Friable Asbestos and is located in Bathroom A. (layer 2) Note: Floor Tiles may be located under cabinets, appliance and non-load bearing walls.

The estimated quantities provided should be verified by contractor and/or building owner. Any discrepancies are to be addressed prior to removal of ACM. Please note that removal costs vary depending on the contractor, the quantity/condition of the ACM, and the accessibility/location of the ACM.



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ASBESTOS SAMPLE DATA TABLE Commercial Building - 1240 Yeamans Hall Road - Hanahan, SC

DESCRIPTION OF EACH SAMPLE AREA			LABOR	ATORY	ASSESS OF MAT		
Homogeneous			Friable	Asbestos	Present	Condition	Hazard
Area & Sample ID	Description	Location/Room #	(Y/N)	Percent	Asbestos	Assessment Gategory	Assessmen Category
01-01	Transite Panel	Exterior Siding	N	10.0%	CHRY	7	3
01-02	Transite Panel	Exterior Siding	N	NT	PACM	7	3
01-03	Transite Panel	Exterior Siding	N	NT	PACM	7	3
02-04	Siding Felt	Exterior Siding	N	0.0%	ND	7	N/A
02-05	Siding Felt	Exterior Siding	N	0.0%	ND	7	N/A
02-06 T	Siding Felt	Exterior Siding	N	0.0%	ND	7	N/A
03-07	Window Glazing	Window 1	Y	0.0%	ND	7	N/A
03-08	Window Glazing	Window 2	Y	0.0%	ND	7	N/A
03-09 T	Window Glazing	Window 3	Y	0.0%	ND	7	N/A
04-10	Exterior Caulk	Window	N	2.0%	CHRY	7	1
04-11	Exterior Caulk	Door	N	NT	PACM	7	1
04-12	Exterior Caulk	Door	N	NT	PACM	7	1
05-13	Roof Shingle	Exterior Roof	N	0.0%	ND	7	N/A
05-14	Roof Shingle	Exterior Roof	N	·0.0%	ND	7	N/A
05-15 T	Roof Shingle	Exterior Roof	N	0.0%	ND	7	N/A
06-16	Roof Felt	Exterior Roof	N	0.0%	ND	7	N/A
06-17	Roof Felt	Exterior Roof	N	0.0%	ND	7	N/A
06-18 T	Roof Felt	Exterior Roof	N	0.0%	ND	7	N/A
07-19	Brick Mastic (black)	Exterior Roof	N	0.0%	ND	7	N/A
07-20	Brick Mastic (black)	Exterior Roof	N	0.0%	ND	7	N/A
07-21 T	Brick Mastic (black)	Exterior Roof	N	0.0%	ND	7	N/A
08-22	16" Self-Stick Floor Tile (gray stone)	Kitchen B – Layer 1	N	0.0%	ND	7	N/A
08-23	16" Self-Stick Floor Tile (gray stone)	Kitchen B – Layer 1	N	0.0%	ND	7	N/A
08-24 T	16" Self-Stick Floor Tile (gray stone)	Kitchen B – Layer 1	N	0.0%	ND	7	N/A
09-25	Vinyl Sheet Flooring (gray/white squares)	Kitchen B – Layer 2	N	0.0%	ND	7	N/A
09-26	Vinyl Sheet Flooring (gray/white squares)	Kitchen B – Layer 2	N	0.0%	ND	7	N/A
09-27 T	Vinyl Sheet Flooring (gray/white squares)	Kitchen B – Layer 2	N	0.0%	ND	7	N/A

- Assessment Categories
 (1) Thermal Systems Insulation Good Condition
- (2) Thermal Systems Insulation Damaged
- (3) Thermal Systems Insulation -Significantly Damaged
- (4) Surfacing Good Condition
- (5) Surfacing Damaged(6) Surfacing Significantly Damaged
- (7) Miscellaneous Good Condition
- (8) Miscellaneous Damaged
- (9) Miscellaneous Significantly Damaged

Asbestos Present

AMOS – Amosite CIIRY – Chrysotile ACTI - Actinolite ND - None Detected CROC - Crocidolite NT - Not Tested ANTH - Anthophylite PACM - Presumed ACM TREM - Tremolite Asbestos Detected

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<u>ASBESTOS SAMPLE DATA TABLE</u> Commercial Building – 1240 Yeamans Hall Road – Hanahan, SC

	DESCRIPTION OF EACH SAMPLE AREA			LABOR	ATORY	ASSESS OF MAT	
Homogeneous			Friable	Asbestos Present		Condition	Hazard
Area & Sample ID	Description	Location/Room #	(Y/N)	Percent	Asbestos		Assessmen Category
10-28	12" Self-Stick Floor Tile (slate)	Bathroom B	N	0.0%	ND	7	N/A
10-29	12" Self-Stick Floor Tile (slate)	Bathroom B	N	0.0%	ND	7	N/A
10-30 T	12" Self-Stick Floor Tile (slate)	Bathroom B	N	0.0%	ND	7	N/A
11-31	Vinyl Sheet Flooring (green pebble)	Living Room B	Y	0.0%	ND	7	N/A
11-32	Vinyl Sheet Flooring (green pebble)	Living Room B	Y	0.0%	ND	7	N/A
11-33 T	Vinyl Sheet Flooring (green pebble)	Living Room B	Y	0.0%	ND	7	N/A
12-34	Vinyl Mastic (black)	Living Room B	N	0.0%	ND	7	N/A
12-35	Vinyl Mastic (black)	Living Room B	N	0.0%	ND	7	N/A
12-36 T	Vinyl Mastic (black)	Living Room B	N	<1.0%	CHRY	7	N/A
13-37	9" Floor Tile (beige)	Bedroom B	N	3.0%	CHRY	8	6
13-38	9" Floor Tile (beige)	Bedroom B	N	NT	PACM	8	6
13-39	9" Floor Tile (beige)	Bedroom A	N	NT	PACM	8	6
14-40	Floor Tile Mastic (black)	Bedroom B	N	8.0%	CHRY	7	1
14-41	Floor Tile Mastic (black)	Bedroom B	N	NT	PACM	7	1
14-42	Floor Tile Mastic (black)	Bedroom A	N	NT	PACM	7	1
15-43	Vinyl Sheet Flooring (yellow squares)	Bathroom A Layer 2	Y	20.0%	CHRY	7	t
15-44	Vinyl Sheet Flooring (yellow squares)	Bathroom A Layer 2	Y	NT	PACM	7	1
15-45	Vinyl Sheet Flooring (yellow squares)	Bathroom A Layer 2	Y	NT	PACM	7	1
16-46	Vinyl Mastic (black)	Bathroom A Layer 2	N	5.0%	CHRY	7	1
16-47	Vinyl Mastic (black)	Bathroom A Layer 2	N	NT	PACM	7	1
16-48	Vinyl Mastic (black)	Bathroom A Layer 2	N	NT	PACM	7	1
17-49	Vinyl Sheet Flooring (beige)	Bathroom A Layer 1	Y	0.0%	ND	7	N/A
17-50	Vinyl Sheet Flooring (beige)	Bathroom A Layer 1	Y	0.0%	ND	7	N/A

Assessment Categories

- (1) Thermal Systems Insulation Good Condition
- (2) Thermal Systems Insulation Damaged
- (3) Thermal Systems Insulation Significantly Damaged
- (4) Surfacing Good Condition
- (5) Surfacing Damaged
- (6) Surfacing Significantly Damaged
- (7) Miscellaneous Good Condition
- (8) Miscellaneous Damaged
- (9) Miscellaneous Significantly Damaged

Asbestos Present

AMOS – Amosite ACTI – Actinolite
CHRY – Chrysotile ND – None Detect

CROC - Crocidolite

ND – None Detected NT – Not Tested

ANTH - Anthophylite TREM - Tremolite

PACM - Presumed ACM Asbestos Detected



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ASBESTOS SAMPLE DATA TABLE Commercial Building - 1240 Yeamans Hall Road - Hanahan, SC

DESCRIPTION OF EACH SAMPLE AREA			LABOR	ATORY	ASSESS OF MAT		
Homogeneous			Friable	Asbestos Present		Condition	Hazard
Area & Sample ID	Description	I orstron/Wooms #	(Y/N)	Percent	Asbestos	Assessment Category	Assessmen Category
17-51 T	Vinyl Sheet Flooring (beige)	Bathroom A Layer 1	Y	0.0%	ND	7	N/A
18-52	Vinyl Sheet Flooring (beige slate)	Kitchen – Layer 1	N	0.0%	ND	7	N/A
18-53	Vinyl Sheet Flooring (beige slate)	Kitchen – Layer 1	N	0.0%	ND	7	N/A
18-54	Vinyl Sheet Flooring (beige slate)	Kitchen – Layer 1	N	0.0%	ND	7	N/A
19-55	Drywall	Kitchen A	Y	0.0%	ND	7	N/A
19-56	Drywall	Kitchen A	Y	0.0%	ND	7	N/A
19-57	Drywall	Kitchen A	Y	0.0%	ND	7	N/A
20-58	Joint Compound	Bedroom A	Y	2.0%	CHRY	4	3
20-59	Joint Compound	Bedroom A	Y	NT	PACM	4	3
20-60	Joint Compound	Bedroom A	Y	NT	PACM	4	3
20-61	Joint Compound	Bedroom A	Y	NT	PACM	4	3
20-62	Joint Compound	Bedroom A	Y	NT	PACM	4	3

- Assessment Categories
 (1) Thermal Systems Insulation Good Condition
- (2) Thermal Systems Insulation Damaged
- (3) Thermal Systems Insulation -Significantly Damaged
 (4) Surfacing – Good Condition

(5) Surfacing – Damaged

- (6) Surfacing Significantly Damaged
- (7) Miscellaneous Good Condition (8) Miscellaneous Damaged
- (9) Miscellaneous Significantly Damaged

Asbestos Present

AMOS - Amosite ACTI - Actinolite CHRY - Chrysotile ND - None Detected CROC - Crocidolite NT - Not Tested ANTH - Anthophylite PACM - Presumed ACM TREM - Tremolite Asbestos Detected

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CONCLUSIONS/RECOMMENDATIONS

Asbestos Inspection

The comprehensive asbestos survey performed by Trident Environmental Services, Inc. on September 18, 2018 of the Commercial Building located at 1240 Yeamans Hall Road in Hanahan, South Carolina did reveal the presence of ACBM. Renovation or demolition activities that will disturb the ACBM will require removal per state and federal regulations. Asbestos materials can become hazardous when, due to damage, disturbance, or deterioration over time, they release asbestos fibers into the air of the building. All areas that contain asbestos should be utilized in a controlled manner to reduce the potential for disturbance. OSHA requires notification to all trades/contractors about the condition of the ACBM to prevent possible occupational exposures.

Demolition activities in public and commercial buildings are regulated by OSHA, EPA, and SCDHEC. Code 40 of Federal Regulations Part 61, Subpart M, Final Rule, "National Emissions Standards for Hazardous Air Pollutants" (NESHAP), and SCDHEC Regulation 61-86.1 require the proper removal and disposal of ACBM that is affected by renovation or demolition. Demolition of the subject structures will require written notification, proper transportation, and disposal per state and federal regulations.

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<u>PHOTOGRAPHS</u> Commercial Building – 1240 Yeamans Hall Road – Hanahan, SC



HOMOGENEOUS AREA 01 TRANSITE PANEL



HOMOGENEOUS AREA 02 SIDING FELT



HOMOGENEOUS AREA 03 WINDOW GLAZING



HOMOGENEOUS AREA 04 EXTERIOR CAULK



HOMOGENEOUS AREA 05 ROOF SHINGLE



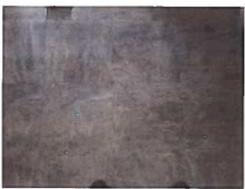
HOMOGENEOUS AREA 06 ROOF FELT

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PHOTOGRAPHS Commercial Building – 1240 Yeamans Hall Road – Hanahan, SC



HOMOGENEOUS AREA 07 BRICK MASTIC (BLACK)



HOMOGENEOUS AREA 08 16" SELF-STICK FLOOR TILE (GRAY STONE)



HOMOGENEOUS AREA 09 VINYL SHEET FLOORING (GRAY/WHITE SQUARES)



HOMOGENEOUS AREA 10 12" SELF-STICK FLOOR TILE (SLATE)



HOMOGENEOUS AREAS 11, 12 VINYL SHEET FLOORING (GREEN PEBBLE) MASTIC (BLACK)



HOMOGENEOUS AREAS 13, 14 9" FLOOR TILE (BEIGE) MASTIC (BLACK)

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<u>PHOTOGRAPHS</u> Commercial Building – 1240 Yeamans Hall Road – Hanahan, SC



HOMOGENEOUS AREAS 15, 16 VINYL SHEET FLOORING (YELLOW SQUARES) MASTIC (BLACK)



HOMOGENEOUS AREA 17 VINYL SHEET FLOORING (BEIGE)



HOMOGENEOUS AREA 18 VINYL SHEET FLOORING (BEIGE SLATE)

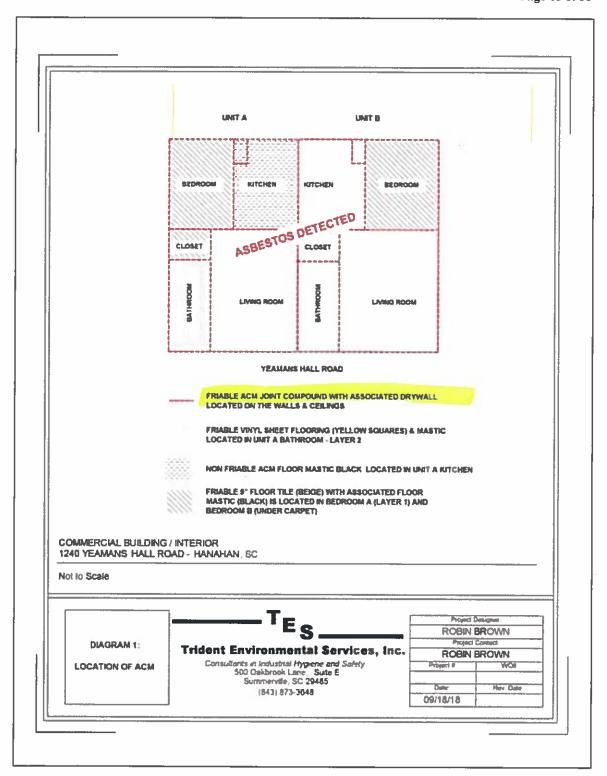


HOMOGENEOUS AREA 19 DRYWALL

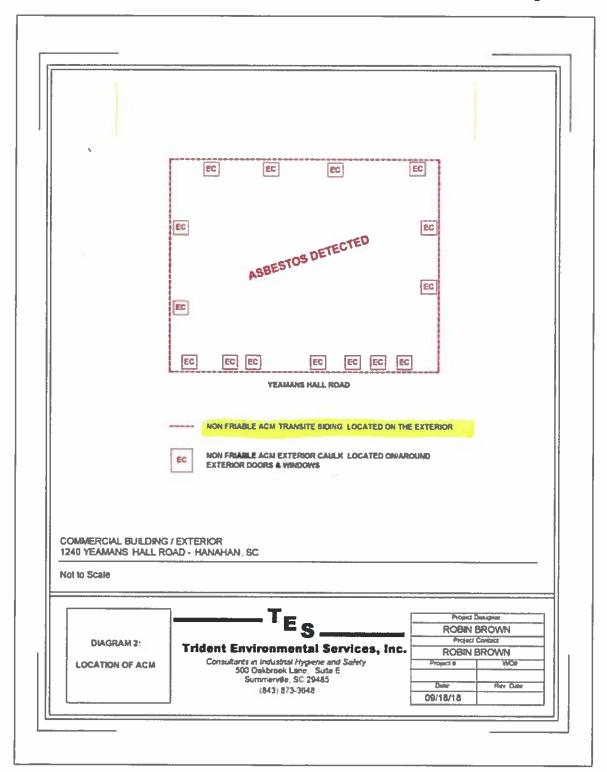


HOMOGENEOUS AREA 20 JOINT COMPOUND

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COMPREHENSIVE ASBESTOS SURVEY

Inspection Date: 09/18/2018

Preparation Date: 09/26/2018

Inspected & Prepared By:

Hunter Hans

Hunter Hanson

S.C. Inspector License BI - 01468

SCDHEC ISSUED

Asbestos ID Card

Hunter Hanson

CONSULTBI **BI-01468** AIRSAMPLER AS-00413

10/28/18 01/06/19

Reviewed By:

FULL Sommer.

Robin A. Brown

S.C. Inspector License BI - 00613

SCDHEC ISSUED

Asbestos ID Card

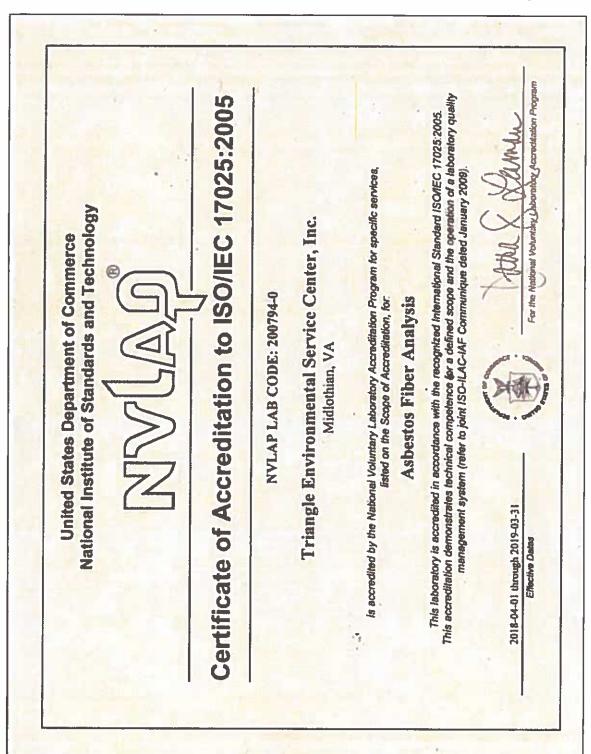
Robin Brown



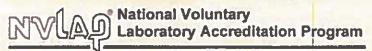
CONSULTPD PD-00176 CONSULTBI BI-00613 AIRSAMPLER AS-00178

Expiration Date 06/14/19 06/26/19

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SCOPE OF ACCRÉDITATION TO ISO/IEC 17025:2005

Triangle Environmental Service Center, Inc.

13509 East Boundary Road, Suite B Midlothian, VA 23112 Mr. Feng Jiang

Phone: 804-739-1751 Fax: 804-739-1753 Email: info@tesclab.com http://www.tesclab.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200794-0

Bulk Asbestos Analysis

Description

INA01

EPA - 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbertos in Bulk Insulation Samples

HI/A03

EPA 600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials

For the National Volunta

Effective 2018-04-01 through 2019-03-31

Page I of I

Page 20 of 35

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101904-0

AmeriSci Richmond

Midlothian, VA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services.

Asbestos Fiber Analysis

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009). This laboratory is accredited in accordance with the recognized international Standard ISCAEC 17025,2005.

2018-07-01 through 2019-06-30

Effective Dates



For the National Volumbly Laboratory Accreditation Progr

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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci Richmond

dba AmeriSci Richmond 13635 Genito Road Midlothian, VA 23112 Mr. Thomas B. Keith

Phone: 804-763-1200 Fax: 804-763-1800 Email: bkeith@ameriscl.com http://www.amerisci.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101904-0

Bulk Asbestos Analysis

Code

Description

IUA01

EPA - 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of

Asbestos in Bulk Insulation Samples

11/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mundatory and Normandatory-and Mandatory Section to Determine Completion of Response Actions" as found in

40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

Effective 2018-07-01 through 2019-06-30

Page 1 of 1

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Ein ironmental Services, Inc.

500 Oakbrook Lane, Suite E Summerville, SC 29485

TESC LOGIN #: 180919C

DATE OF RECEIPT: 9/19/2018 DATE OF ANALYSIS 9/19/2018

DATE OF REPORT: 9/19/2018

CLIENT JOB/#:

JOB SITE: 1240 Yearnans Half Rd.

ANALYST B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIRERS	NON FIBROUS % MATERIALS
1	01-01 / Gray granular, white fibers	10% Chrysotile		90%
2	01-02 /	Positive Stop		100%
1	01-03 /	Positive Stop		100%
4	02-04 / Black fibers	NAD	98% Ccliulose	2%
5	02-05 / Black fibers	NAD	98% Cellulose	2%
6	0246 / Black fibers	NAD	98% Cellulose	2%
7	01407 / White powder	NAD		100%
В	03-08 / White powder	NAD		100%
9	03-09 /	Not Analyzed		100%
10	04-10 / White powder	2% Chrysotile		98%

Samples are unalyzed in accordance with "Interim Method for the Determination of Aubenton in Bulk Insulation Samples", IPA/t/in/R-93-116, July 1993 #FPA-000/M4-R2-020, Dec 1982), or the current US EPA method for the analysis of ashestos in building material. None Detected: not detected at/or below the desected limit of method (Reporting limit 1% Asbestos). Glass fiber is analyzed for quality control blank. LESC recommends by point count or Transmission files from Microscopy (TLM), for materials regulated by the LPA NESTAP (National Finission) Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Hoth acrysces are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested

NVLAFTab Code: 2007944-0

{LEGEND NAD=No Ashestos [Maseted, Limo = Limoleum, JC = Joint Compound]

Reviewed By Authorized Signatury:

Feng Jiang, MS Senior Geologist, Laboratory Director Inching Fung. Sensor Creshogist

Wednesdey, September 19, 2018

Page 1 of 7

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midlathian, VA 23112 804-739-1751 • fax: 804-739-1753

BÜLK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc 500 Oakbrook Lane, Suite E Summerville, SC 29485

TESC LOGIN # 180919C

DATE OF RECEIPT: 9/19/2018 DATE OF ANALYSIS 9/19/2018 DATE OF REPORT: 9/19/2018

CLIENT JOB/#

JOB SITE: 1240 Yearnans Hall Rd.

ANALYST. B Trinunce

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
11	04-11 /	Positive Stop		100%
12	04-12 /	Positive Stop		100%
13	05-13 / Black tat-like	NAD	20% Fiberglass	NP.
Į4	05-14 / Black tar-file	NAD	20% Fiberglass	101%
13	05-15 /	Not Analyzed		100%
16	06-16 / Black fibers	NAD	98% Cellulose	2%
17	06-177 Black fibers	NAD	98% Cellulose	2%
1x	06-187	Not Analyzed		10054
19	07-19 / Black adhesive	NAD		100%
20	07-20 / Black adhesive	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbentos in Bulk Institution Samples", FPAR600/R-93-116, July 1993 (EPA-600/M4-82-020), Dec 1982), or the current US EPA method for the analysis of asbestos in building insternal. None Detected: not detected into the detected limit of inethod (Reporting limit, 1% Asbestos) of this fiber is analyzed for quality control blank. LESC recommends by point count or Transmission Electron Microscopy (11/M), for materials regulated by the LPA NESIAP (National Finission Standards for Hazindous Air Pollutants) and found to contain less than ten percent (<10%) adventos by Polarized Light Microscopy (PLM) [Both acrysics are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the item(s) tested

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Ashestos [Astected, I mo =1 moleum, IC=Jumt Compound]

Reviewed By Authorized Signatory:

Frng Jimg, All Senior Geologist, Laboratory Director Inciding Fung, Senior Geologist

Wednesden, September 19, 2818

Page 2 of 7

Page 24 of 35

TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midhthian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT Trident Environmental Services, Inc. 500 Oakbrook Line, Suite E Summerville, SC 29485 TESC LÓGIN # 180919C

DATE OF RECEIPT: 9/19/2018
DATE OF ANALYSIS 9/19/2018

DATE OF REPORT: 9/19/2018

gamanat rina da

CLIENT JOB/#

JOB SITE: 1240 Yearnans Hall Rd.

ANALYST B Trinunct

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASSESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
21	07-217	Not Analyzed		100%
22	08-22 / Beige vinyl	NAD		100%
23	08-23 / Beige vinyl	NAD		100%
24	08-24 /	Not Analyzed		100%
25	09-25 / Gray linu , fibers	NAD	20% Cellulose 5% Fiberglasa	75%
26	09-26 / Gray linu , fibers	NAD	20% Celhilose 5% Fiberglass	75%
27	09-277	Not Analyzed		100%
28	10-287 Brown vinyl	NAD		100%
29	10-29 / Brown งาเลูโ	NAD		100%
30	10-70 /	Not Analyzed		300%

Samples are snalyzed in accordance with "Interim Method for the Determination of Asbestas in Bulk Insulation Samples", EPA/t-04/R-93-116, July 1993 (EPA-604/M-83-020, Dec 1982), or the current US-EPA method for the analysis of asbestos in building insterial. None Detected not detected after below the detected limit of method (Reporting limit. 1% Asbestos) Glass fiber is analyzed for quality control blank. IESC recommends by point count or Imminission Blank of Microscopy (ITM), for materials regulated by the LPA NESTIAP (Naturnal Emission Standards for Busindous Air Pollatants) and found to contain less than ten percent (<10%) arbestos by Polatized Light Microscopy (ITM) Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the item/s) tested

NVLAP Lab Code 20079440

[LEGEND NAD=No Ashestos [Astected, Lino =Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

Fing Jime, AS Sentor Geologist, Laboratory Director Tuesbing Fung, Sentor Geologist

Wednesday, September 19, 2014

Page 1 of T.

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Ein ironnental Sen ices, Inc 500 Oakbrook Lane, Suite E Summerville, SC 29485 TESC LOGIN # 180919C

DATE OF RECEIPT: 9/19/2018
DATE OF ANALYSIS 9/19/2018
DATE OF REPORT: 9/19/2018

CLIENT JOB/#

JOB SITE: 1240 Yearnians Hall Rd.

ANALYST: B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
31	31-31 / Green Imp , black fibers	NAD	20% Cellulose	80%
32	11-32 / Green lino , black fibers	NAD	20% Cellulose	80%
33	11-337	Not Analyzed		100%
н	12-34 / Black adhesive	NAD		100%
35	12-35 / Black adhesive	NAD		100%
36	12-36 /	Not Analyzed	AND THE STATE OF LAST	100%
37	13-37 / Brown viny1	3% Chrysotile		97%
38	13-38 /	Positive Stop		100%
19	11-197	Positive Stop		1025
40	14-40 / Black adhesive	8% Chrysotile		92%

NVI AP Lah Code: 200794-0

[LEGEND NAD=No Ashestor Detected, I mo *1 moleum, IC=Joint Compound]

Reviewed By Authorized Signatory:

Feng Jiang, MS Sentor Geologist, Laboratory Director Lucking Fung, Senior Geologist

Wednesday, September 19, 2018

Page 4 of 7

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 - fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc 500 Oakbrook Lane. Suite E Summerville, SC 29485

TESC LOGIN # 180919C

DATE OF RECEIPT: 9/19/2018 DATE OF ANALYSIS 9/19/2018 DATE OF REPORT: 9/19/2018

CLIENT JOB/#

JOB SITE 1240 Yearmans Hall Rd.

ANALYST: B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
41	14-11/	Positive Stop		100%
42	14-42 /	Positive Stop		100%
43	15-41 / Beige vinyl, gray fibers	20% Chry sotile		8076
н	15-44 /	Positive Stop		100%
45	15-15 /	Positive Stop		100%
46	16-46 / Black adhesive	5% Chrysotile		95%
47	16-47 /	Positive Stop		100%
48	16-48 /	Positive Stop		100%
49	17-49 / Beige lino , gray fibers	NAD	20% Cellulose 5% Fiberglasa	75%
50	17-50 / Beige line , gray fibers	NAD	20% Cellulose 5% Fiberglass	75%

Samples are stally and in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", I'PA/(60/R/93-116, July 1993 (FPA-600/M4-82-020), Dec 1982), or the current US EPA method for the analysis of asbestos in building insterial. None Detected not detected after below the detected limit of method (Reporting limit. 1% Asbestos). Obras fiber is analyzed for quality control blank. LSC recommends by point count or imminission Electron Microscopy (TLM), for insterials regulated by the LPA NESDAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) arbeitors by Polarized Light Microscopy (PLM). Both services are available for an additional less. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the item/s) tested.

NVI AP Lab Code 200794-0

[LEGEND NAD-No Asbestos Datected, I mn #1 moleum, JC#Joint Compound]

Reviewed By Authorized Signatory:

Feng Jiang, MS Senior Geologist, Laboratory Director Lucking Fang, Senior Geologist

Windnesday, September 19, 2018.

Page 5 of 7

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midlethien, VA 23112 804-739-1751 * fax: 864-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc.

500 Oakbrook Lane, Suite E Summerville, SC 29485 TESC LOGIN # 180919C

DATE OF RECEIPT: 9/19/2018 DATE OF ANALYSIS 9/19/2018 DATE OF REPORT: 9/19/2018

CLIENT IOB/#:

JOB SITE: 1240 Yeannans Hall Rd.

ANALYST. B. Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
51	17-51 /	Not Analyzed		100%
52	18-52 / Brown hao , gray fibers	NAD	20% Cellulose 5% Fiberglass	75%
53	18-53 / Brown lino , gray fibers	NAD	20% Cellulose	80%
54	18-54 /	Not Analyzed		100%
55	19-55 / White powder, brown fibers	NAD	20% Cellulose	KII%
56	19-56 / White powder, brown fibers	NAD	20% Cellulose	8H76
57	19-57 / White powder, brown fibers	NAD	20% Cellulose	80%
58	20-58 / White powder	2% Chrysotile		98%
59	20-59 /	Positive Stop		100%
60	20-60 /	Positir e Stop		100%

Samples are analyzed in accordance with "Interior Method for the Determination of Ashestos in Bulk Insulation Samples", FPA#600/R-91-116, July 1993 (FPA-600/R-91-82-020, Dec 1982), or the current US-EPA method for the analyze of ashestos in building insterial. None Detected into detected at/or below the detected limit of method (Reporting limit. 1% Ashestos). Oftois fiber is analyzed for quality control blank. 1ESC recommends by point count of Transmission Electron Macroscopy (TLM), for materials regulated by the EPA NESTIAP (National Finission Standards for Illizardous Air Pollutaris) and froud to contain less than (en percent | < 10%) ashestos by Polarized Light Microscopy. (PLM) Both services are available for an additional for. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVI.AP Lab Code 200794-0

[LEGEND NAD=No Asbestos Detected, I mo #1 moleum, JC#Joint Compound].

Reviewed By Authorized Signatory:

Feng Jime, AS Senior Geologist, Laboratory Director Tuesburg Pang, Senior Geologist

Wednesday, September 19, 2018.

Page hal 7

Page 28 of 35

TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midlethian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc.

500 Oakbrook Lune, Suite E Summerville, SC 29485

TESC LOGIN # 180919C

DATE OF RECEIPT: 9/19/2018 DATE OF ANALYSIS 9/19/2018

DATE OF REPORT: 9/19/2018

CLIENT JOB/#:

JOB SITE: 1240 Yeamans Hall Rd

ANALYST. B. Trinunct

TESC SAMPLE#		CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS	
61	20-61 /		Positive Stop		100%	
62	20-62 /		Positive Stop		100%	

Total Samples/Layers Analyzed: 35

Samples are analyzed in accordance with "Interim Method for the Determination of Ashestos in Bulk Insulative Samples", IPA/t/00VR-93-116, July 1993 (FPA-600/SH-82-020), Dec 1982), or the current US EPA method for the analysis of ashestos in bulking insterial. None Detected not detected attre below the detected limit of method (Reporting limit, 1% Asbestos). Ohisis fiber is analyzed for quality control blank. LESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) ashestos by Polarized I ight Microscopy (PI M). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. this test report relates only to the item(s) tested

NVEAP Lab Code 200794-0

[LEGEND NAD=No Ashestos Detected, I mo =Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

Fing Jime, AS Senior Geologist, Laboratory Director Inching Fang, Sensor Grologist

Wednesday, Newtorsher 19, 2018.

Page 7 of 7

Page 29 of 35

CLIENT Tridera Environmental Services, Inc. 500 Oalsbrook Lanc. State E Summerville, SC 2948\$ CLIENT PROJECT # 1240 Yeamains Hall Rd 1240 Yeam	VE ACID SOLUBLE INORGANIC % 65.7	TESC LOGIN # DATE OF RECEIPT DATE OF REPORT ANALYST ANALYST ANALYST T T	NP1972018 (1971972018 (1971972018
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1230 Yearans Hall Rd A Days CLIENT SAMPLE 03-09 0.518 05-15 0.467	Н	ANALYST INSOLUBLE NON-ASBESTOS INORGANIC %	
SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE O3-09 0.518		INSOLUBLE NON-ASBESTOS INORGANIC % 7	J. Tumer
0.518	65.7	7	ASBESTOS% BY TEM
0.467	45		NAD
		34.2	NAD
06-18 0.623 97.6	8,1	6	NAD
07-21 0.421 993	si,	7	NAD
05:24 0.551 27.8	69.5	2.7	NAD
Reviewed By Authorized Shenatory:	Brudon Fang	Jane	E
Performed to the reproduced croops in full with the approval of TESC, Inc. The test report relates only to the items is related. Thus test was performed by an NVLAP majest by EDA (ADE SO). The test report includes only to the items is related. Thus test was performed by an NVLAP with Lab. NVLAP (ADE SO) and past by EDA (ADE SO). There is NVLAP WAY ADE SOUTH was performed by an NVLAP.	Forgations and experient termination Land Execution The test report relates only in CATACO TO CONTROL OF A VIA	screamy, entre size the elemisticiscol. This test was perference !! Hulls accorditation) French Ashevelin]	b an NVIAP

Page 30 of 35

	VINS	MARY OF BU	undary Road, Suthe B,	13509 East Boundary Read, Sathe B, Middenhier, VA 23112 • 864-799-1751 • fat; 884-739-1753 RRY OF BULK ASBESTOS ANALYSIS, BY TRANSMISSION ELCTRON MI	1389 East Boundary Rood, Seide B. Midfothier, VA 23112 - 884-739-1751 - fau; 884-739-1753 SUMMARY OF BULK ASBESTOS ANALYSIS, BY TRANSMISSION ELCTRON MICROSCOPY	ដ
CLIENT	Trakes Em Stit Oakbers Summentik	Traken Emiromeenal Services, Inc 500 Oakbrook Lane, Suite E Summerville, SC 20485	25. Since		TESC LOGIN # DATE OF RECEIPT.	7916/81 T (19/19/2018
CLENT PROJECT # JOBSITE)ECT# 240 Yeamurs Hall Rd	ins Hall Rd			DATE OF REPORT ANALYST:	
TESC SAMPLE	CLIENT	SAMPLE WEIGHT (g)	HEAT SENSITIVE ORGANIC %	ACID SOLIBLE INORGANIC%	INSOLUBLE NON-ASBESTOS INORGANIC %	ASBENTOS% BY TRM
6 0	09-27	0 308	72.2	10.8	21	NAD
_	10:30	0.576	8.00	40.8	14.4	NAD
100	11-33	0.366	76.8	£	7	NAD
	12-36	0.432	43.1	12.5	44.4	<1% Chrysotile
01	17.51	0.415	84.8	3. F.	6	NAD
	36	Heviewed By Authorierd Signatury 1		Mudory Found Tough	Fauge	
Una rep accredix [LEGIEN	ort mast soci ke reprodu på 117M lab. NVI AP 1. (D. NAE) – No Askesso	ced encept in full wil ab it) = Unitat # » (Newterf NA = No.	if the approval of TESC. EM analysis by FPA 6400 Analyzed, FS - Postive	Instructions and be reproduced except in full with the approval of TESC, fac. The best report relates only to the itematy bests according IFM Lth. NVLAP Lab (1) * (1) [94.4 IFM analysis by FPA Lth. R.93. His (not covered by NVLAP Platta according ILTICAL). NALE NO Autorise (NA = Not Analysis by Expense) FER LTICAL NALE * NOT ANALYSE (NA = Not Analysis by Expense).	In a report mad not be repareduced except in full with the approval of TESC, Inc. The best report relates only to the itemata heated. Their less was performed by an NVLAP managed by NVLAP Hall also have referred by NVLAP Hall accreditations. [LGUEND NAD - No Aubersaue Described NA - Not A malazed, 155 - Positive Stop, Times - 155, NVA - No Visual Asheston).	d by an NVIAP
Kyczebu 24, 2011	=					Page 2 of 1

Page 31 of 35

hp lat

TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Sette B, Allebothlan, VA 23112 + 804-795-1751 + fat; 884-739-1753

	180919K	8[9Z/6]/(d)	81021/260	MINZ/PZ(ta)	J. Turner		000-1-10 /00/1-7-00-7-1	ASSESSION TO BE LEVE
SUMMARY OF BULK ASBESTOS ANALYSIS BY TRANSMISSION ELCTRON MICROSCOPY	11:5C10GIN #	DATE OF RECEIPT	DATE OF ANALYSIS	DATE OF REPORT	ANALYST		INSOLUBLE NON-ASBESTOS	INORGANIC **
ALYSIS BY TRANSMIS							ACID SOLUBLE	INORGANIC %
LK ASBESTOS AN	i, lic						HEAT SENSITIVE	ORCANIC %
MARY OF BU	Tradent Emmonmental Services, Inc. 500 Oakbrook Lane, State E	Summerville, SC 29485			ns Hall Rd		SAMPLE	WEIGHT to
साड	Tradent Emu	Summerville		EL#	1240 Yearnans Hall Rd		CLIENT	SAMPLE
	CLIENT			CLIENT PROJECT #	JOBSITE.	TAT	TESC	SAMPLE

8

40.5

51.2

0.295

19:54

-

Total Sample(s) Analyzed: 11

Reviewed By Authorized Signatury:

Forg Hang AS Senar Gradoges Laboratory Derestor Lordong Long, Senar Geologist

This report must not be reporduced except in full with the approval of UESC. Inc. The lost report in tables only this less was performed by an NVLAP and the Lib. NVLAP Lab 13 * 10 1944 of 18 Manalysis by PPA 640 R-93 (10 time tenered by NVLAP Had accorditation).

[LEGEN] NAD * No Asherson [America" NA * Mar Analysed, PS * Fourtire Stop, Time * - 1*, NVA * No Visual Asherson).

Special 24, 2018

Page 32 of 35

TRIANGLE ENVIRONMENTAL SERVICE CENTER	sx; 804-739-1753		10		Las Han Rid			Comments					-112-11X	1/18 4:1//22			Pages: of
ENVIRONMENTAL	13509 East Boundary Road, Sulte B - Midlethian - VA - 23112 - Tel; 804-739-1751 - Fax; 804-739-1753	11-81. 6	LAME: Robin Brown		PROJECT SITE: 1240 YEARS HAIN	On TESC File		/ir Volume (L) Mae Area (M²) (² mb) solA sqend					Date/Time: 7	Date/Time 9/19	Date/Time:	Date/Time:	Pa
TRIANGLE	4 • 23112 • Tel:	DATE: 0	. ~	- PROJECT #:	PROJECTS	Email: O	Ar Quanty/Mold	Shde Shde Suface Tape Suface Swab									Contract.
:	Midlothian • V				3 Day: 78 10 S Day:	O+O.	Other Motals	8 ASPA 43 MACAING Fume Texe Metal Profile		+			Hana	11.00	6		משונה ומיום והיה ומים אים מים מים מים מים מים מים מים מים מים מ
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COMPREHENSIVE ASBESTOS SURVEY

COMMERCIAL BUILDING 1242 YEAMANS HALL ROAD HANAHAN, SC 29410



Prepared For:

CITY OF HANAHAN Attn: Mrs. Katherine Farias 1255 Yeamans Hall Road Hanahan, SC 29410 (843) 576-5254

Performed By:



Trident Environmental Services, Inc.

Consultants in Industrial Hygiene and Safety 500 Oakbrook Lane, Suite E Summerville, SC 29485 (843) 873-3648

COMPREHENSIVE ASBESTOS SURVEY

Commercial Building 1242 Yeamans Hall Road Hanahan, SC 29410

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EXECUTIVE SUMMARY

The comprehensive asbestos survey performed by Trident Environmental Services, Inc. on September 18, 2018 of the Commercial Building located at 1242 Yeamans Hall Road in Hanahan, South Carolina did reveal the presence of asbestos containing building materials. The following summary exhibits the asbestos containing building materials (ACBM) that were identified in the inspection.

Asbestos

Description	Туре
Transite Siding	Category II – Non Friable
Sink Coating (black)	Category I – Non Friable
Ceiling Texture (texture)	RACM – Friable
9" Floor Tile (green)	RACM – Friable
Floor Tile Mastic (black)	Category I – Non Friable

RACM - Regulated Asbestos Containing Material

PACM - Presumed Asbestos Containing Material

The identified ACBM includes the item(s) listed above. All removal work of the identified ACBM should be performed by a properly trained and licensed abatement contractor prior to the planned renovation/demolition activities.



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BACKGROUND

Trident Environmental Services, Inc. was contracted by City of Hanahan. to perform a comprehensive asbestos survey of the Commercial Building located at 1242 Yeamans Hall Road in Hanahan, South Carolina. The survey was performed in order to satisfy the NESHAP requirements for renovation and/or demolition. The Commercial Building is approximately 1,113 square feet and is built slab on grade. Interior walls and ceilings are drywall with joint compound applied at the seams and patches. Flooring material is vinyl floor tile, vinyl sheet flooring, hardwood and carpet. Exterior walls are cementitious paneling with felt paper. Roofing material consists of asphalt roofing shingles and felt paper. Exterior windows and doors are wood.

<u>Asbestos</u>

The inspection was conducted to identify ACBM which may be disturbed during the renovation/demolition activities. The identification of ACBM will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos fibers. Identification of ACBM also complies with Title 40 Code of the Federal Regulations, Part 61, and South Carolina Department of Health and Environmental Control (SCDHEC) Regulation 61-86.1, along with Title 29 Code of Federal Regulations, Part 1926 enforced by the Occupational Safety and Health Administration (OSHA). The Asbestos Survey describes the investigative procedures utilized, results of the suspect ACBM sampled/analyzed, and recommendations regarding the structures as related to asbestos.



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ASBESTOS SURVEY

Asbestos Investigative Procedures

Trident Environmental Services, Inc. conducted an inspection for suspect ACBM on September 18, 2018 of the Commercial Building located at 1242 Yeamans Hall Road in Hanahan, South Carolina. It is our understanding that the subject structure will undergo renovation or demolition activities in the near future. The asbestos survey was performed by observing and sampling suspect building materials. Significant destructive testing was not utilized during the inspection. There is a possibility that suspect materials exist in inaccessible areas such as wall cavities and pipe chases. If any additional suspect ACBM are discovered during the course of demolition activities, bulk samples should be extracted to identify the presence, or absence, of asbestos prior to continuation of work activities.

A sampling strategy was developed to provide representative samples for analysis. Samples were then extracted from a variety of suspect ACBM. Bulk samples collected were—recorded on a Chain-of-Custody record and submitted to Trident Environmental Service Center, Inc. (TESC) a Polarized Light Microscopy (PLM) laboratory. The laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology (NIST). TESC is accredited by NVLAP for the analysis of bulk asbestos by PLM (NVLAP Lab Code: 200794-0).

The suspect materials were analyzed by trained microscopists utilizing PLM techniques coupled with dispersion staining in accordance with EPA Test Method Title 40 Code of Federal Regulations, Chapter I (1-1-87 edition), Part 763, Subpart F- Appendix A. This method identifies asbestos mineral fibers based on six optical characteristics: morphology, birefringence, refractive index, extinction angle, sign of elongation and dispersion staining colors. The laboratory analysis reports the specific type of asbestos identified (there are six asbestos minerals) and the percentage of asbestos present. The EPA and OSHA defines materials as asbestos containing if an asbestos content of greater than one percent (>1%) is detected in a representative sample.

Non-Friable Organically Bound (NOB) samples were submitted to AmeriSci Richmond Laboratory for analyses by Transmission Electron Microscopy (TEM). SCDHEC requires NOB materials with negative or trace results by PLM to be analyzed by at least one TEM. SCDHEC in accordance with ASTM E 2356-04 defines NOB materials as "materials that are not friable and that consist of fibers and other particulate matter embedded in a solid matrix of asphalt, vinyl or other organic substances." Examples of NOB materials include but are not limited to flooring materials such as vinyl floor tiles, vinyl sheet flooring, adhesives, mastics, asphalt shingles, roofing materials, glazing, caulks, and cove base.



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The EPA classifies ACBM into two categories, friable and non-friable. A friable material creates a greater health hazard due to the fact that it may be "crumbled, pulverized or reduced to powder by the forces expected to act upon it in the course of demolition or renovation operations."

Friable Asbestos material means any material containing more than one percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763 section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10 percent as determined by a method other than point counting by polarized light microscopy (PLM), verify the asbestos content by point counting using PLM.

Category I Non Friable Asbestos-Containing Material (ACM) means asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy.

Category II Non Friable ACM means any material, excluding Category I non friable ACM, containing more than one percent asbestos as determined using the methods specified in appendix A, subpart F, 40 CFR part 763, section I, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. (cement siding, transite board shingles, etc.)

Regulated Asbestos-Containing Material (RACM) means (a) Friable asbestos material, (b) Category I non friable ACM that has become friable, (c) Category I non friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The following section summarizes the sample numbers, locations, type material, asbestos type, percent of asbestos detected, present condition of the asbestos containing material, potential for disturbance, and hazard assessment ratings. The asbestos sample laboratory analyses and chain of custody records are included at the end of this report.

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Asbestos Abbreviations and Hazard Assessment Key

The EPA and SCDHEC require that confirmed ACBM is given a hazard assessment based on its present condition and potential for future disturbance. This hazard assessment is used as a tool for prioritization in future remedial actions regarding the ACBM. The following key demonstrates the criteria that make up the hazard assessment.

Present Condition

F = Friable

G = Good (very localized limited damage)

NF = Non-friable

D = Damaged (<10% distributed and/or <25% localized)

S = Significantly Damaged (≥10% distributed and/or 25% localized)

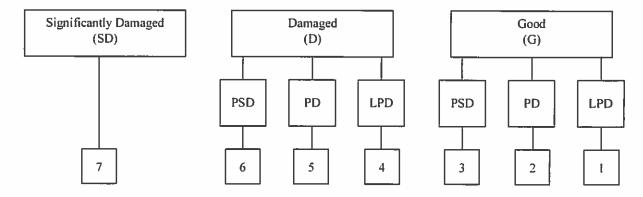
Potential for Future Disturbance

LPD = Low Potential for Disturbance (Contact, Vibration, and/or Air Erosion - low concern)

PD = Potential for Damage (Contact, Vibration, and/or Air Erosion – moderate concern)

PSD = Potential for Significant Damage (Contact, Vibration and/or Air Erosion – high concern)

Hazard Assessment





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<u>HOMOGENOUS AREA ESTIMATED FOOTAGE TABLE</u> Commercial Building – 1242 Yeamans Hall Road – Hanahan, SC

HOMOGENOUS AREA ID #	DESCRIPTION	ESTIMATED AMOUNT
01	Transite Siding	1,788 SF
02	Siding Felt	1,788 SF
03	Window Glazing	56 SF
04	Exterior Caulk	90 SF
05	Roof Shingle	960 SF
06	Roof Felt	960 SF
07	Brick Mastic (black)	8 SF
08	Sink Coating (black)	4 SF
09	Drywall	4,452 SF
10	Joint Compound	4,452 SF
11	Ceiling Texture (texture)	170 SF
12	Ceiling Texture (stapled)	100 SF
13	Sink Coating (gray)	4 SF
14	Vinyl Sheet Flooring (green/pink)	100 SF
15	Vinyl Sheet Flooring (green/dark green)	100 SF
16	Vinyl Sheet Flooring (12" slate squares)	100 SF
17	Vinyl Sheet Flooring (9" beige/white square)	130 SF
18	Vinyl Sheet Flooring (beige/green)	120 SF
19	9" Floor Tile (green)	140 SF
20	Floor Tile Mastic (black)	140 SF
20	Vinyl Sheet Flooring (light wood)	120 SF
21	Vinyl Sheet Flooring (stone)	260 SF
22	Floor Felt Paper	370 SF
23	Vinyl Sheet Flooring (dark wood)	210 SF
24	Vinyl Sheet Flooring (beige/green)	120 SF

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Summercies SC 28485
BATH STATEMENT

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<u>ASBESTOS SUMMARY</u> Commercial Building – 1242 Yeamans Hall Road – Hanahan, SC

DESCRIPTION	ТҮРЕ	ESTIMATED AMOUNT
Transite Siding	Category II – Non Friable	1,788 SF
Sink Coating (black)	Category I - Non Friable	4 SF
Ceiling Texture (texture)	RACM – Friable	170 SF
9" Floor Tile (green)	RACM – Friable	140 SF
Floor Tile Mastic (black)	Category I – Non Friable	140 SF

RACM - Regulated Asbestos Containing Material

*PACM - Presumed Asbestos Containing Material

SCDHEC requires any non-friable material that is identified in an asbestos inspection report in a condition other than good and non-friable must be handled as a Regulated Asbestos Containing Material (RACM) and identified as friable on the asbestos abatement application. This requirement is reflected in the Asbestos Summary Table listed above.

Asbestos fibers were identified in the Transite Siding. Approximately 1,788 square feet is present and in good condition. This material is considered Category II – Non Friable Asbestos and is located on the exterior.

Asbestos fibers were identified in the Sink Coating (black). Approximately 4 square feet is present and in good condition. This material is considered Category I – Non Friable Asbestos and is located in the Unit A Kitchen.

Asbestos fibers were identified in the Ceiling Texture (texture). Approximately 170 square feet is present and is good condition. This material is considered RACM – Friable Asbestos and is located in the Unit B Living Room.

Asbestos fibers were identified in the 9" Floor Tile (beige) and associated Floor Tile Mastic (black). Approximately 140 square feet is present and is significantly damaged. This material is considered RACM – Friable Asbestos and is located in Room 2 (layer 2) and Room 1 Closet (layer 2). Note: Floor Tile may be located under non-load bearing walls and cabinets.

The estimated quantities provided should be verified by contractor and/or building owner. Any discrepancies are to be addressed prior to removal of ACM. Please note that removal costs vary depending on the contractor, the quantity/condition of the ACM, and the accessibility/location of the ACM.



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ASBESTOS SAMPLE DATA TABLE Commercial Building - 1242 Yeamans Hall Road - Hanahan, SC

	DESCRIPTION OF EACH S	AMPLE AREA		LABOR	ATORY	ASSESS OF MAT		
Homogeneous			Friable	Asbestos Present		Condition	Hazard	
Area & Sample ID	Description	Location/Room #	(Y/N)	Percent	Asbestos	Assessment Category	Assessment Category	
01-01	Transite Siding	Exterior Siding	N	10.0%	CHRY	7	3	
01-02	Transite Siding	Exterior Siding	N	NT	PACM	7	3	
01-03	Transite Siding	Exterior Siding	N	NT	PACM	7	3	
02-04	Siding Felt	Exterior Siding	N	0.0%	ND	7	N/A	
02-05	Siding Felt	Exterior Siding	N	0.0%	ND	7	N/A	
02-06 T	Siding Felt	Exterior Siding	N	0.0%	ND	7	N/A	
03-07	Window Glazing	Window I	Y	0.0%	ND	7	N/A	
03-08	Window Glazing	Window 2	Y	0.0%	ND	7	N/A	
03-09 T	Window Glazing	Window 3	Y	0.0%	ND	7	N/A	
04-10	Exterior Caulk	Window	N	0.0%	ND	7	N/A	
04-11	Exterior Caulk	Door	N	0.0%	ND	7	N/A	
04-12 T	Exterior Caulk	Door	N	0.0%	ND	7	N/A	
05-13	Roof Shingle	Exterior Roof	N	0.0%	ND	7	N/A	
05-14	Roof Shingle	Exterior Roof	N	0.0%	ND	7	N/A	
05-15 T	Roof Shingle	Exterior Roof	N	0.0%	ND	7	N/A	
06-16	Roof Felt	Exterior Roof	N	0.0%	ND	7	N/A	
06-17	Roof Felt	Exterior Roof	N	0.0%	ND	7	N/A	
06-18 T	Roof Felt	Exterior Roof	N	0.0%	ND	7	N/A	
07-19	Brick Mastic (black)	Exterior Roof	N	0.0%	ND	7	N/A	
07-20	Brick Mastic (black)	Exterior Roof	N	0.0%	ND	7	N/A	
07-21 T	Brick Mastic (black)	Exterior Roof	N	0.0%	ND	7	N/A	
08-22	Sink Coating (black)	Kitchen A	N	3.0%	CHRY	7	1	
08-23	Sink Coating (black)	Kitchen A	N	NT	PACM	7	1	
08-24	Sink Coating (black)	Kitchen A	N	NT	PACM	7	1	
09-25	Drywall	Kitchen A	Y	0.0%	ND	7	N/A	
09-26	Drywall	Kitchen A	Y	0.0%	ND	7	N/A	
09-27	Drywall	Kitchen A	Y	0.0%	ND	7	N/A	
10-28	Joint Compound	Kitchen A	Y	0.0%	ND	4	N/A	
10-29	Joint Compound	Living Room A	Y	0,0%	ND	4	N/A	

Assessment Categories

- (1) Thermal Systems Insulation Good Condition
- (2) Thermal Systems Insulation Damaged
- (3) Thermal Systems Insulation -Significantly Damaged
- (4) Surfacing Good Condition
- (5) Surfacing Damaged
- (6) Surfacing Significantly Damaged
- (7) Miscellaneous Good Condition
- (8) Miscellaneous Damaged
- (9) Miscellaneous Significantly Damaged

Asbestos Present

AMOS - Amosite CHRY - Chrysotile CROC - Crocidolite

ACTI - Actinolite ND - None Detected NT - Not Tested

ANTH - Anthophylite PACM - Presumed ACM

TREM - Tremolite Asbestos Detected

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ASBESTOS SAMPLE DATA TABLE Commercial Building - 1242 Yeamans Hall Road - Hanahan, SC

DESCRIPTION OF EACH SAMPLE AREA					ATORY	ASSESS OF MAT	
Homogeneous		Fria		Asbestos	Present	Condition	Hazard
Area & Sample ID	Description	Location/Room #	(Y/N)	Percent	Asbestos	Assessment Gategory	Assessmen Category
10-30	Joint Compound	Room 1	Y	0.0%	ND	4	N/A
10-31	Joint Compound	Room 3	Y	0.0%	ND	4	N/A
10-32	Joint Compound	Living Room B	Y	0.0%	ND	4	N/A
11-33	Ceiling Texture (texture)	Living Room B	Y	3.0%	CHRY	4	3
11-34	Ceiling Texture (texture)	Living Room B	Y	NT	PACM	4	3
11-35	Ceiling Texture (texture)	Living Room B	Y	NT	PACM	4	3
12-36	Ceiling Texture (stapled)	Kitchen A	Y	0.0%	ND	4	N/A
12-37	Ceiling Texture (stapled)	Kitchen A	Y	0.0%	ND	4	N/A
12-38	Ceiling Texture (stapled)	Kitchen A	Y	0.0%	ND	4	N/A
13-39	Sink Coating (gray)	Kitchen B	l N	0.0%	ND	7	N/A
13-40	Sink Coating (gray)	Kitchen B	N	0.0%	ND	7	N/A
13-41 T	Sink Coating (gray)	Kitchen B	N	0.0%	ND	7	N/A
14-42	Vinyl Sheet Flooring (green/pink)	Kitchen A Layer 3	Y	0.0%	ND	7	N/A
14-43	Vinyl Sheet Flooring (green/pink)	Kitchen A Layer 3	Y	0.0%	ND	7	N/A
14-44 T	Vinyl Sheet Flooring (green/pink)	Kitchen A Layer 3	Y	0.0%	ND	7	N/A
15-45	Vinyl Sheet Flooring (green/dark green)	Kitchen A Layer 2	Y	0.0%	ND	7	N/A
15-46	Vinyl Sheet Flooring (green/dark green)	Kitchen A Layer 2	Y	0.0%	ND	7	N/A
15-47 T	Vinyl Sheet Flooring (green/dark green)	Kitchen A Layer 2	Y	0.0%	ND	7	N/A
16-48	Vinyl Sheet Flooring (12" slate square)	Kitchen A Layer 1	N	0.0%	ND	7	N/A
16-49	Vinyl Sheet Flooring (12" slate square)	Kitchen A Layer 1	N	0.0%	ND	7	N/A
16-50 T	Vinyl Sheet Flooring (12" slate square)	Kitchen A Layer 1	N	0.0%	ND	7	N/A
17-51	Vinyl Sheet Flooring (9" beige/white square)	Room 1 - Layer 1	N	0.0%	ND	7	N/A
17-52	Vinyl Sheet Flooring (9" beige/white square)	Room 1 – Layer 1	N	0.0%	ND	7	N/A
17-53 T	Vinyl Sheet Flooring (9" beige/white square)	Room I – Layer I	N	0.0%	ND	7	N/A

Asbestos Present

AMOS - Amosite ACTI - Actinolite ND - None Detected CHRY - Chrysotile CROC - Crocidolite NT - Not Tested ANTH - Anthophylite PACM - Presumed ACM TREM - Tremolite Asbestos Detected

Assessment Categories
(1) Thermal Systems Insulation – Good Condition

⁽²⁾ Thermal Systems Insulation - Damaged

⁽³⁾ Thermal Systems Insulation -Significantly Damaged (4) Surfacing - Good Condition

⁽⁵⁾ Surfacing – Damaged (6) Surfacing – Significantly Damaged (7) Miscellaneous – Good Condition

⁽⁸⁾ Miscellaneous - Damaged

⁽⁹⁾ Miscellaneous - Significantly Damaged

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ASBESTOS SAMPLE DATA TABLE Commercial Building - 1242 Yeamans Hall Road - Hanahan, SC

Mist	DESCRIPTION OF EACH SAMPLE AREA				LABORATORY		MENT ERIALS
Homogeneous			Friable	Asbestos Present		Condition	Hazard
Area & Sample ID	Description	Location/Room #	(Y/N)	Percent	Asbestos	Assessment Category	Assessmen Category
18-54	Vinyl Sheet Flooring (beige/green)	Room 2 – Layer 3	Y	0.0%	ND	7	N/A
18-55	Vinyl Sheet Flooring (beige/green)	Room 2 – Layer 3	Y	0.0%	ND	7	N/A
18-56 T	Vinyl Sheet Flooring (beige/green)	Room 2 – Layer 3	Y	0.0%	ND	7	N/A
19-57	9" Floor Tile (green)	Room 2 - Layer 2	Y	3.0%	CHRY	9	- 1
19-58	9" Floor Tile (green)	Room 2 – Layer 2	Y	NT	PACM	9	1
19-59	9" Floor Tile (green)	Closet - Layer 2	Y	NT	PACM	9	1
20-60	Floor Tile Mastic (black)	Room 2 – Layer 2	N	8.0%	CHRY	7	1
20-61	Floor Tile Mastic (black)	Room 2 - Layer 2	N	NT	PACM	7	I
20-62	Floor Tile Mastic (black)	Closet - Layer 2	N	NT	PACM	7	1
20-63	Vinyl Sheet Flooring (light wood)	Room 2 – Layer 1	N	0.0%	ND	7	N/A
20-64	Vinyl Sheet Flooring (light wood)	Room 2 – Layer 1	N	0.0%	ND	7	N/A
20-65 T	Vinyl Sheet Flooring (light wood)	Room 2 – Layer 1	N	0.0%	ND	7	N/A
21-66	Vinyl Sheet Flooring (stone)	Living Room B	N	0.0%	ND	7	N/A
21-67	Vinyl Sheet Flooring (stone)	Living Room B	N	0.0%	ND	7	N/A
21-68 T	Vinyl Sheet Flooring (stone)	Kitchen B	N	0.0%	ND	7	N/A
22-69	Floor Felt Paper	Living Room B	N	0.0%	ND	7	N/A
22-70	Floor Felt Paper	Room 3	N	0.0%	ND	7	N/A
22-71 T	Floor Felt Paper	Room 4	N	0.0%	ND	7	N/A
23-72	Vinyl Sheet Flooring (dark wood)	Room 3 – Layer 1	N	0.0%	ND	7	N/A
23-73	Vinyl Sheet Flooring (dark wood)	Room 3 – Layer 1	N	0.0%	ND	7	N/A
23-74 T	Vinyl Sheet Flooring (dark wood)	Room 3 – Layer 1	N	0.0%	ND	7	N/A
24-75	12" Self-Stick Tile (beige stone)	Room 4 – Layer 2	N	0.0%	ND	7	N/A
24-76	12" Self-Stick Tile (beige stone)	Room 4 – Layer 2	N	0.0%	ND	7	N/A
24-77 T	12" Self-Stick Tile (beige stone)	Room 4 – Layer 2	N	0.0%	ND	7	N/A

Assessment Categories (1) Thermal Systems Insulation - Good Condition

- (2) Thermal Systems Insulation Damaged
- (3) Thermal Systems Insulation -Significantly Damaged
- (4) Surfacing Good Condition
- (5) Surfacing Damaged
- (6) Surfacing Significantly Damaged (7) Miscellaneous Good Condition
- (8) Miscellaneous Damaged
- (9) Miscellaneous Significantly Damaged

Asbestos Present ACTI - Actinolite

AMOS - Amosite CHRY - Chrysotile CROC - Crocidolite

ND - None Detected NT - Not Tested

TREM - Tremolite

ANTH - Anthophylite PACM - Presumed ACM Asbestos Detected



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CONCLUSIONS/RECOMMENDATIONS

Asbestos Inspection

The comprehensive asbestos survey performed by Trident Environmental Services, Inc. on September 18, 2018 of the Commercial Building located at 1242 Yeamans Hall Road in Hanahan, South Carolina did reveal the presence of ACBM. Renovation or demolition activities that will disturb the ACBM will require removal per state and federal regulations. Asbestos materials can become hazardous when, due to damage, disturbance, or deterioration over time, they release asbestos fibers into the air of the building. All areas that contain asbestos should be utilized in a controlled manner to reduce the potential for disturbance. OSHA requires notification to all trades/contractors about the condition of the ACBM to prevent possible occupational exposures.

Demolition activities in public and commercial buildings are regulated by OSHA, EPA, and SCDHEC. Code 40 of Federal Regulations Part 61, Subpart M, Final Rule, "National Emissions Standards for Hazardous Air Pollutants" (NESHAP), and SCDHEC Regulation 61-86.1 require the proper removal and disposal of ACBM that is affected by renovation or demolition. Demolition of the subject structures will require written notification, proper transportation, and disposal per state and federal regulations.

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HOMOGENEOUS AREA 01 TRANSITE SIDING



HOMOGENEOUS AREA 02 SIDING FELT



HOMOGENEOUS AREA 03 WINDOW GLAZING



HOMOGENEOUS AREA 04 EXTERIOR CAULK



HOMOGENEOUS AREA 05 ROOF SHINGLE



HOMOGENEOUS AREA 06 ROOF FELT

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HOMOGENEOUS AREA 07 BRICK MASTIC (BLACK)



HOMOGENEOUS AREA 08 SINK COATING (BLACK)



HOMOGENEOUS AREA 09 DRYWALL



HOMOGENEOUS AREA 10 JOINT COMPOUND



HOMOGENEOUS AREA 11 CEILING TEXTURE (TEXTURE)



HOMOGENEOUS AREA 12 CEILING TEXTURE (STAPLED)

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HOMOGENEOUS AREA 13 SINK COATING (GRAY)



HOMOGENEOUS AREA 14 VINYL SHEET FLOORING (GREEN/PINK)



HOMOGENEOUS AREA 15 VINYL SHEET FLOORING (GREEN/DARK GREEN)



HOMOGENEOUS AREA 16 VINYL SHEET FLOORING (12" SLATE SQUARES)



HOMOGENEOUS AREA 17 VINYL SHEET FLOORING (9" BEIGE/WHITE SQUARES)



HOMOGENEOUS AREA 18 VINYL SHEET FLOORING (BEIGE/GREEN)

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HOMOGENEOUS AREAS 19, 20 9" FLOOR TILE (GREEN) MASTIC (BLACK)



HOMOGENEOUS AREA 20 VINYL SHEET FLOORING (LIGHT WOOD)



HOMOGENEOUS AREA 21 VINYL SHEET FLOORING (STONE)



HOMOGENEOUS AREA 22 FLOOR FELT PAPER

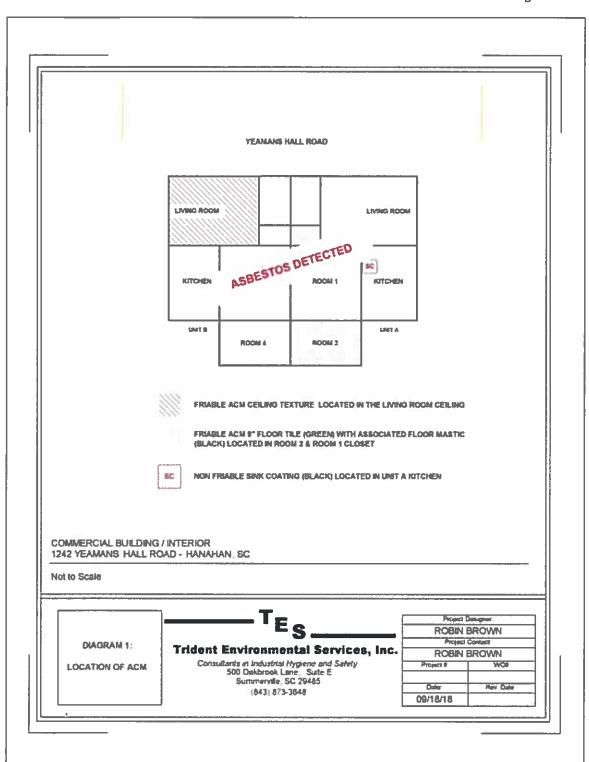


HOMOGENEOUS AREA 23 VINYL SHEET FLOORING (DARK WOOD)

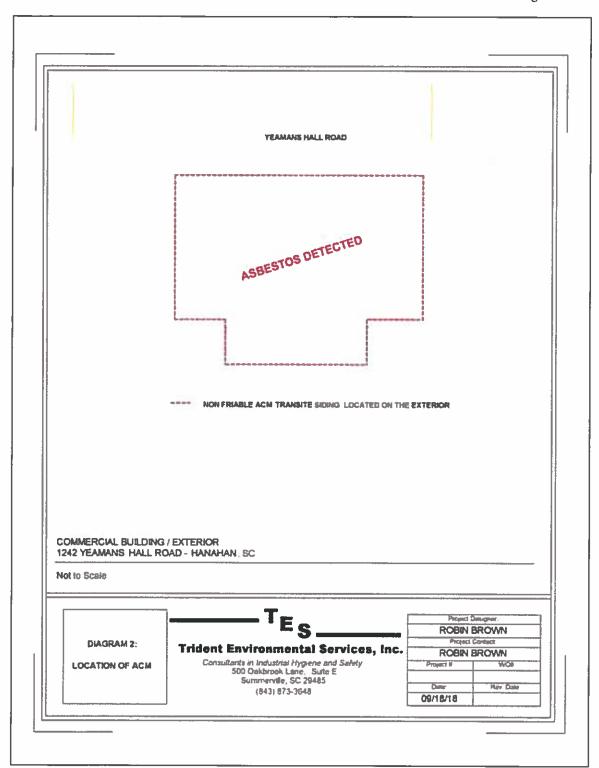


HOMOGENEOUS AREA 24 12" SELF-STICK TILE (BEIGE STONE)

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COMPREHENSIVE ASBESTOS SURVEY

Inspection Date: 09/18/2018

Preparation Date: 09/26/2018

Inspected & Prepared By:

Hunter Hunor

Hunter Hanson

S.C. Inspector License BI – 01468

SCDHEC ISSUED

Asbestos ID Card

Hunter Hanson

CONSULTBI BI-01468 AIRSAMPLER AS-00413 10/28/18 01/06/19

Reviewed By:

-KARmore

Robin A. Brown
S.C. Inspector License BI – 00613

SCDHEC ISSUED

Asbestos ID Card

Robin Brown

CONSULTPD PD-00176 CONSULTBI BI-00613 AIRSAMPLER AS-00178

Expiration Date: 06/14/19 06/26/19 02/05/19

Page 19 of 39

This accreditation demonstrates facturical competence for a defined scope and the operation of a laboratory quality Certificate of Accreditation to ISO/IEC 17025:2005 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025;2005. is accredited by the National Voluntary Laboratory Accreditation Program for specific services, management system (rafer to joint ISO-ILAC-IAF Communique dated January 2009) National institute of Standards and Technology Triangle Environmental Service Center, Inc. For the Netternal Voluntary United States Department of Commerce NVLAP LAB CODE: 200794-0 Asbestos Fiber Analysis listed on the Scope of Accreditation, for Midlothian, VA 2018-04-01 through 2019-03-31

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National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Triangle Environmental Service Center, Inc.

13509 East Boundary Road, Suite B Midlothian, VA 23112 Mr. Feng Jiang Phone: 804-739-1751 Fax: 804-739-1753

Email: info@tesclah.com http://www.tesclab.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200794-0

Bulk Asbestos Analysis

Code

Description

IN/A01

EPA - 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbertos in Bulk Insulation Samples

IB/A03

EPA 600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials

For the National ccreditation Program

Effective 2018-04-01 through 2019-03-31

Page 1 of 1

Page 21 of 39

This accreditation demonstrates technical compatence for a defined scope and the operation of a laboratory quality This laboratory is accredited in accordance with the recognized International Standard ISCAEC 17025, 2005. is accredited by the National Voluntary Laboratory Accreditation Program for specific services, management system (refer to joint ISO-ILAC-IAF Communique dated January 2009) National Institute of Standards and Technology Certificate of Accreditation to ISO/IEC 1 For the National Volunting United States Department of Commerce NVLAP LAB CODE: 101904-0 **Asbestos Fiber Analysis** listed on the Scope of Accreditation, for AmeriSci Richmond Midlothian, VA 2018-07-01 through 2019-06-30

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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci Richmond

dba AmeriSci Richmond 13635 Genito Road Midlothian, VA 23112 Mr. Thomas B. Keith

Phone: 804-763-1200 Fax: 804-763-1800 Email: bkeith@amerisci.com http://www.amerisci.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101904-0

Bulk Asbestos Analysis

Code

Description

18/ADL

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of

Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

Affective 2018-07-01 through 2019-06-30

Page 1 of 1

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midhthian, VA 23112 894-729-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc.

500 Oakbrook Lane, Suite E Summerville, SC 29485 TESC LOGIN # 180919D

DATE OF RECEIPT: 09/19/2018 DATE OF ANALYSIS: 09/19/2018

DATE OF ANALYSIS 09/19/2018 DATE OF REPORT: 09/19/2018

CLIENT 10B/#:

JOB SITE: 1242 Yeamans Hall Rd.

ANALYST. B. Trimmer

TESC SAMPLE #	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
ı	01-01 / Gray granular, white fibers	10% Chrysotile		90%
2	01-02/	Positive Stop		100%
3	01-037	Positive Stop		10014
4	02-04 / Black fibers	NAD	98% Cellulose	2%
5	02-05 / Black fibers	NAD	98% Cellulose	2%
6	02-06 / Black fibers	NAD	98% Cellulose	294
7	01-07 / White powder	NAD		100%
*	03-08 / White powder	NAD		100%
9	03-09 /	Not Analyzed		100%
10	04-10 / Tan, white powder	NAD		100%

Samples are smalyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/SOUR-93-(16, July 1993) (FPA-600MS1-82-020). Dec 1982), or the current US FPA method for the analysis of ashestos in building material. None Detected, not detected infor below the detected limit of method (Reporting limit. 1% Asbestos), Gaus fiber is analyzed for quality control blank. LESC recommends by point count to Transmission Electron Microscopy (TLM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Art Pollutania) and found to contain less than ten percent (<10%) arbestos by Polarized Light Microscopy (PLM) Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the item/s) tested

NVLAF Lab Code 20079440

[LEGEND NAD=No Ashestos Datected, I mn =1 moleum, JC=Joint Compound]

Reviewed By Authorized Signatury:

Feng Jung, AS Senior Geologist, Laboratory Director Yurking Fung, Senior Geologist

September 28, 2018

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midiothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT Trident Environmental Services, Inc.

500 Oakbrook Lane, Suite E Summerville, SC 29485 TESC LOGIN # 180919D

DATE OF RECEIPT: 09/19/2018 DATE OF ANALYSIS 09/19/2018 DATE OF REPORT: 09/19/2018

CLIENT JOB/#:

JOB SITE. 1242 Yeamans Hall Rd.

ANALYST B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
11	04-11 / White adhesive	NAD		100%
12	04-12/	Not Analyzed		10014
17	05-13 / Black tur-like	NAD	10% Fiberglass	90%
14	05-14 / Black tar-like	NAD	10% Fiberglass	90%
15	05-15 /	Not Analyzed		100%
16	06-16 / Black fibers	NAD	98% Cellulose	294
17	06-17 / Black fibers	NAD	98% Cellulose	2%
18	06-187	Not Analyzed		100%
19	07-19 / Black adhesive	NAD		100%
20	07-20 / Black adhesive	NAD		100%

NVLAP Lab Code 20079440

[LEGEND NAD=No Ashestos Detected, I.mo =I moleum, JC=Joint Compound]

Reviewed By Authorized Signatury:

Fung Jiang, MS Senior Geologist, Laboratory Director Yorking Fang, Senior Geologist

September 23, 20 In

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midhethian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc. 500 Onlybrook Large Suite E

TESC LOGIN # 180919D

500 Oukbrook Lane, Suite E Summerville, SC 29485

DATE OF RECEIPT: 09/19/2018
DATE OF ANALYSIS 09/19/2018
DATE OF REPORT: 09/19/2018

CLIENT IOB/#:

JOB SITE 1242 Yearnams Hall Rd.

ANALYST B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
21	07-21 /	Not Analyzed		100%
22	08-22 / Black adhesive	3% Chrysutile		97%
23	08-23 /	Positive Stop		100%
24	08-24 /	Positive Stop		100%
25	09-25 / White powder, brown libers	NAD	20% Cellulose	80%
26	09-26 / White powder, brown fibers	NAD	20% Cellulose	10%
27	09-27 / White powder, brown fibers	NAD	20% Cellulose	80%
28	10-28 / White powder	NAD	r karadampan walio na 9 mililahandikan Mililahandika da	100%
29	10-29 / White powder	NAD		100%
30	10-30 / White powder	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/6007K-93-126, July 1993 (FPA-6007M-83-920) Dec 1982), or the current US FPA method for the analysis of asbestos in building material. None Detected not detected after below the detected limit of method (Reporting limit. 1% Asbestos). Claim filter is analyzed for quality control blank. IESC recommends by point count to framamenson Flectron Microscopy (FEM), for materials regulated by the EPA NESIDA (National Emission Standards for Hazardous Air Publicants) and found to contain less than ten percent (<10%) releases by Polarized Light Microscopy (FEM). Both services are available for an additional lice. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the item(a) tested

NV1.AP Lab Code: 200794-0

[LEGEND NAD=No Ashestos Detected, Line #I moleum, 3C=Joint Compound]

Reviewed By Authorized Signatory:

Feng Jiang, MS Senior Geologist, Laboratory Director Yurdung Fang, Senior Geologist

September 28, 2018

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midlothian, VA 23112 884-739-1751 • fax: 884-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT Trident Environmental Services, Inc.

500 Oakbrook Lane, Suite E Summerville, SC 29485

TESC LOGIN #. 180919D

DATE OF RECEIPT: 09/19/2018 DATE OF ANALYSIS 09/19/2018 DATE OF REPORT: 09/19/2018

CLIENT JOB/#

JOB SITE. 1242 Yeamans Hall Rd.

ANALYST. B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
11	[0-3] / White powder	NAD		100%
12	10/32 / White powder	NAD		100%
33	11-33 / White powder	3% Chrysotlie		97%
34	11-347	Positive Stop		100%
35	11-35/	Positive Stop	en Paris de la Companya de la Compan	100%
36	12-36 / White powder	NAD		100%
17	12-37 / White powder	NAD		100%
38	12-38 / White powder	NAD		100%
39	13-39 / Gray adhesive	NAD		10056
40	13-40 / Gray adhesive	NAD		10056
41	13-417	Not Analyzed	Philipping Control of the Control of	100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (FPA-6000/64-82-020). Dec 1982), or the current US FPA method for the mishvis of ashestoe in building material. Note Detected not detected alloy below the detected limit of method (Reporting limit, 1% Asbestos), Glaus fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Flection Microscopy (TEM), for materials regulated by the LPA NESHAP (National Emission Standards for Hazardous Art Pullulants) and found to contain less than ten percent (<10%) ashestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Iriangle Environmental Service Center, Inc. This test report relates only to the items a tested

NVLAF Lab Code 20079140

[LEGEND NAD=No Ashestos Datocted, I mo =1 moleum, JC=Joint Compound]

Residued By Authorized Signatory:

Feng Jiang, MS Senine Geologist, Laboratory Director

I wedong Fame, Senior Geologist

September 21, 2011

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midlothinn, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc. Still Onlybrook Lang. Stille F.

500 Oakbrook Lane, Suite E Summerville, SC 29485 TESC LOGIN # 180919D

DATE OF RECEIPT: 09/19/2018 DATE OF ANALYSIS 09/19/2018 DATE OF REPORT: 09/19/2018

CLIENT JOB/#:

JOB SITE. 1242 Yearnans Hall Rd.

ANALYST B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
42	14-42 / Green line , black fibers	NAD	20% Cellulose	14176
43	14-43 / Green lino_black fibers	NAD	20% Ceitalose	80%
44	14-447	Not Analyzed		100%
45	15-45 / Green lino black fibers	NAD	20% Cellulose	80%
46	15-16 / Green lino , black fibers	NAD	20% Cellulose	HIPS.
47	15-47/	Not Analyzed		100%
48	16-48 / Brown linoleum	NAD	5% Fiberglass	95%
49	16-49 / Brown linoleum	NAD	5% Fiberglass	95%
50	16-30 /	Not Analyzed		100%

Samples are smalyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (FPA-600/M-12-020) Dec 1982), or the current US FPA method for the analysis of asbestos in building material. None Detected; not detected after below the detected limit of method (Reporting limit. 1% Asbestos) (Rass filter is analyzed for quality control blank. LESC recommends by point count or transmission Electron Microscopy (FEM), for materials regulated by the LPA NESHAP (National Emission Standards for Hazindous Air Pollutants) and found to contain less than ten percent (<10%) reheates by Polarized Light Microscopy (FEM) Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the item(s) tested

NVLAP Lab Code 200794-0

[LEGEND NAD=No Asbestos [Selected, I mo #1 moleum, JC#Joint Compound]

Reviewed By Authorized Signatory:

Feng Jiang, MN Senior Geologist, Laboratory Director Yuedong Fang, Senior Geologist

September 2X, 2018

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midhibian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT Trident Environmental Services, Inc

500 Oakbrook Line, Suite E Summerville, SC 29485 TESC LOGIN # 180919D

DATE OF RECEIPT: 09/19/2018
DATE OF ANALYSIS 09/19/2018
DATE OF REPORT: 09/19/2018

CLIENT JOB/#:

JOB SITE: 1242 Yearnans Hall Rd.

ANALYST B Trinunce

TESC SAMPLE #	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
51	17-51 / Brown Imo , white fibers	NAD	20% Cellulose	80%
52	17-52 / Brown lino , white fibers	NAD	20% Cellulose	80%
57	17-53 /	Not Analyzed		100%
54	18-54 / Brown lino , black fibers	NAD	20% Cellulose	80%
55	18-55 / Brown lino , black fibers	NAD	20% Cellulose	MI%
56	18-56 /	Not Analyzed		100%
57	19-57 / Green viry	3% Chrysotile		97%
58	19-58 /	Positive Stop	magarangana data shahanakan	100%
59	19-59/	Positive Stop	1999	100%
60	20-60 / Black adhesive	8% Chrysotlic		92%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (FPA-600/N-93-00), Dec 1982), or the current US FPA method for the malysis of asbestos in building insterial. None Detected: not detected after below the detected limit of method (Reporting Limit, 198 Asbestos), Claus fiber is analyzed for quality control blank. IESC recommends by point count or Transmissional Electron Microscopy (TEM), for insterials regulated by the LPA NESDAP (National Emission Standards for Illiandous Air Pullutants) and found in contain face than ten percent <109% indicates by Polarized Light Microscopy (PLM). Both acroscos are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the items of tested

NVLAP1ab Code 200794-0

[LEGEND NAD=No Ashestos Datected, Lino +Linoleum, JC+Joint Compound]

Reviewed By Authorized Signatory

Fing Jung, MS Senior Geologist, Laboratory Director Furding Fung, Senior Geologist

September 24, 2018

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Soundary Road, Suite B, Midhithian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc.

500 Oakbrook Lane, Suite E Summerville, SC 29485 TESC LOGIN # 180919D

DATE OF RECEIPT: 09/19/2018
DATE OF ANALYSIS 09/19/2018
DATE OF REPORT: 09/19/2018

CLIENT IOB/#:

JOB SITE: 1242 Yeamans Hall Rd.

ANALYST B Trinunci

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
61	20-61/	Positive Stop		100%
62	20-62 /	Positive Stop		100%
63	20-63 / Brown Imoleum	NAD	5% Fiberglass	95%
64	20-64 / Brown linolcum	NAD	5% Fiberglass	95%
65	20-65 /	Not Analyzed		100%
66	21-66 / Brown linolcum	NAD		100%
67	21-67 / Brown linoleum	NAD		100%
(-8	21-68 /	Not Analyzed		100%
69	22-69 / Black fibers	NAD	98% Cellulose	294
70	22-70 / Black fibers	NAD	98% Cellulose	2%

Samples are smalyzed in accordance with "lateran Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/660/R-93-116, July 1993 (EPA-600/M-82-020, Dec 1982), or the current US FPA method for the mishysis of asbestos in building monerial. None Detected: not detected at/or below the detected from the method (Reporting limit, 194 Asbestos). Glass fifter is smaltzed for quality control blank. LESC recommends by point count or Transmission Blectron Microscopy (TEM), for materials regulated by the EPA NESDAP (National Emission Standards for Bazardous Art Pollutants) and found to contain less than ten percent (<0.0%) asbestos by Polarized Light Microscopy (PLM) Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested

NVLAP Lab Code: 200794-0

[LEGEND | NAD=No Asbestos Detected, I mo #I moleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

Feng Jung, AS Senior Geologist, Laboratory Director Yuedang Fang, Senior Geologist

September 21, 2018

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Rund, Suite B. Midhithian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc

TESC LOGIN # 180919D

500 Oakbrook Lane, Suite E Summerville, SC 29485

DATE OF RECEIPT: 09/19/2018
DATE OF ANALYSIS 09/19/2018
DATE OF REPORT: 09/19/2018

CLIENT JOB/#:

JOB SITE: 1242 Yeanians Hall Rd.

ANALYST B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED 94 ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
71	22-71 /	Not Analyzed		100%
72	23-72 / Brown Imoleum	NAD		10056
73	23-73 / Brown linoleum	NAD	THE RESERVE OF THE PERSON OF T	100%
74	23-74 /	Not Analyzed		100%
75	24-75 / Gray vinyl	NAD		100%
76	24-76 / Gray viry1	NAD		100%
77	24:77 /	Not Analyzed	197	100%

Total Samples/Layers Analyzed: 51

Samples are marked in accordance with "Interim Method for the Deterimination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (FPA-600/M-92-020), Dec 1982), or the current US FPA method for the insulysis of asbestos in halding material. None Detected not detected after below the detected kini of method (Reporting limit, 195 Asbestos). Class filter is mail-zed for quality control blank. TESC recommends by point count of Transmission Flectron Microscopy (TEM), for materials regulated by the LPA NUSIIAP (National Emission Standards for Hazardous Ar Pollutins) and found to contain less than ten percent (<10%) arbestos by Polarized I right Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the item(s) tested

NVLAP Lab Code: 200794-0

[LEGEND NATI-No Ashestos Detected, I mn =1 mofeum, JC+Joint Compound]

Reviewed By Authorized Signatory:

Feng Jiang, MS Senior Geologist, Laboratory Director Lucdong Fong, Senior Geologist

September 24, 2018

Page II of K

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		13509 East Bo	endary Reed, Sater B. A	13509 East Boundary Read, Suiter B, Alishethian, VA 23112 +804-799-1751 + fat; 884-735-1753	13509 East Boundary Road, Suite B, Midlothian, VA 23112 -884-739-1751 - fax; UN4-737-1753	
		MMARY OF BU	LK ASBESTOS AN	ALYSIS BY TRANSMI	HMMARY OF BULK ASBESTOS ANALYSIS BY TRANSHISSION ELCTRON MICROSCOPY	H
CLRENT	Tridert Em Sei Ophbe Summervill	Trident Environmental Services, Inc 300 Oalbrook Line, Suite E Summerville, SC 20483	s Inc		TESC LOGIN # DATE OF RECEIPT: DATE OF ANALYSIS	
CLIENT PROJECT #	NECT.#				DATE OF REPORT	
JOBSITE	1242 Yeam 3 Day	1242 Yeamans Hall Rd. 3 Day	176		ANALYST	B. Gjoka
TESC SAMPLE	CLIENT SAMPLE #	SAMPLE WEIGHT (g)	HEAT SENSITIVE ORGANIC %	ACID SOLUBLE INORGANIC %	INSOLUBLE NON-ASBESTOS INORGANIC 18	ASBESTOS% BY TEM
+	03-08	0.465	173	96.9	0	NAD
N	05-15	0.463	18.1	40.8	41.3	NAD
en	06-18	01.013	93.1	2.7	4.2	NAD
4	07-21	0.205	8	7	6	NAD
ın.	13-41	0.243	8.81	37	46.1	NAD
	356	Her fen ed By Ausbort i en Stenniory :		Mudouy Forey Money Forey	Fancy Person	
The re accreding	port must not be reproduced incl. TEM Lib. NVLAPPEND. NAD - No Asbesk	aued except in full wit Lab III P = 1019444 - T ov Ebtected" NA = Na	th the approval of TESC, In EM analysis by EPA 600.1 (Analyzed, PS = Populise?	The report most not be reproduced except in full with the approval of TESC, has. The test report relates only to the items) testes according to TEM LIN. NVLAP Lab IID = 1019440. TEM analysis by EDA 600.R.93.1 Ho (not covered by NVLAP Hulk actrodists [LEGENT: NAID = No Asbeston Extended' NA = Not Analysed, PS = Portive Stop, Time = = 15., NVA = No Visual Asheston?	The report must not be reproduced except in full with the approval of TEXC, has. The test report relates only to the items's bested. This less was performed by an NVIAP accreditation.) accredited TEM Lib. NVIAP Lab III = 101944. IEM analysis by EPA 600 R.93. Ho (not covered by NVIAP Hall accreditation) [LEGENT: NAID = No Asbeston Electrod' NA = Not Analysed, FS = Positive Stop. Time = 18%, NVA = No Visual Asbeston's	d by an NVIAP
September 28, 2018	M10:					Papa I of a

Page 32 of 39

	3	1350° Eau B	sendary Read, Suite B, N	1350° EM Boendary Rood, Serie B, Midenhan, VA 23112 - 894-79-1751 - Sat. 884-7-9-1751 IRV OF BULK ASBESTOS ANALYSIS BY TRANSMISSION ELCTRON MI	1350° Ear Boundary Road, Seite B. Midfothin, VA 23112 • 884-739-1759 Axt. 884-739-1759 MMARY OF BULK ASBESTOS ANALYSIS BY TRANSMISSION ELCTRON NIICROSCOPY	
CLENT:		Trident Emiromrenal Services, Inc 500 Calbrack Lure, Suite E Summerville, SC 20485	74 74		TESCLOGIN # DATE OF RECEIPT DATE OF ANALYSIS DATE OF REPORT	(9/19/2018 (9/19/2018 (9/19/2018
JOBSTTE. TAT		1242 Yeamans Hall Rd.			ANALYST	B. Gola
TESC SAMPLE #	CLIENT SAMPLE #	SAMPLE WEIGHT (g)	HEAT SENSITIVE ORGANIC %	ACID SOLUBLE INORGANIC %	INSOLUBLE NOWASBESTOS INORGANIC %	ASBESTOS% BY TEM
Ø	14.44	0.42	74.5	A. A.	.	NAD
7	15-47	0.324	8/	17.6	46	NAD
10	16-50	0.635	72.4	24.6	eg	NAD
5	17-53	0.406	89	0%	61	NAD
01	18-56	0.325	708	24.3	9.4	NAD
	_	Rendern ed B). Amthorized Signatury !		Mudou Faug	Faug	
The rep accredit [LE02]	port mead not be repond tod TEM Isb., NVLAP ND, NAD - Ne Asbest	luced except in full my Lab II) = 101944 In Extented' NA = No	th the approval of TBSC. In IEM analysis by EPA 44th E at Analysed, FS - Pentite S	This report must not be reporduced except in full with the approval of 185C, Inc The test report relates only in the nord of looked. The second of the control of the con	The report must not be reporduced except in full with the approval of TESC, Inc. The test report relates only to the stems i tested. This test was performed by an NVLAP and tab. NVLAP Lab ID = 101944 - IEM analysis by EDA 440 M9-116 mot covered by NVLAP Built accordination) [LEGEND NAID = No Asbession Extracted NA = Not Analysis by ESS = Portive Sety, Trace = 100, NVA = No Visual Asbession]	y an NVI Alt
September 28, 2018	118					Page 2 of 4

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CLIENT PROJECT # Tradent Emittonmental Scrices, Inc. Summerville, SC 19485 CLIENT PROJECT # Tradent Emittonmental Scrices, Inc. Summerville, SC 19485 CLIENT PROJECT # DATE OF RECEIPT JOBSITE: 1242 Yearnan Hall Rd. TAX: TAX: TAX: TAX: AMPLE # SAMPLE MEAT SENSITIVE MICROANIC % INORGANIC % INORGANIC % INORGANIC % A	TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC. 1350º Ent Boundary Rood, Sathe B. Mildonian, Va 23112 - 864-735-1751 - fre: 884-739-1753	CENTER, INC.	
Trident Environmental Services, State E Summerville, SC 29485	ALYSIS BY TRANSMISSION	JELCTRON MICROSCOP	
TTE: 1242 Yeamans Hall Rd. ESC. CLIENT SAMPLE. 20-65 0.42 21-68 0.355 22-71 0.476 22-77 0.638		TESC LOGIN # DATE OF RECEIPT: DATE OF RECEIPT:	(1971/19), (1971/20)8
ESC. CLIENT SAMPLE PLLE O.42 20-65 0.42 21-68 0.355 22-71 0.476 24-77 0.878		DATE OF REPORT ANALYST	
20-65 0.42 21-68 0.355 22-71 0.476 23-74 0.536	ACID SOLIBLE IN	INSOLUBLE NON-ASBESTOS INORGANIC %	ASBESTOS% BY TEM
22-71 0.476 23-74 0.538 24-77 0.878	26.7	*	NAD
23-71 0.476 23-74 0.538 24-77 0.678	45.1	42	NAD
24.77 0.878	2.7	2.6	NAD
24-77 0.878	28.2	80	NAD
es de la constant de	66.7	19.3	NAD
Herbers all By Authorized Standards Free Liang, M. Sensor free death of Deve as I necket at I have also proved for the separation of the reproduced except in full with the approval of TESC, tag. The test report must not be reproduced except in full with the approval of TESC, tag. The test report relates only to the next state. This less was performed by an NVLAP acception of the NVLAP Lab ID F-1019344. The analyses by EPA 4481R-93-116 (not exceed by NVLAP Hull accordination). [LEGIND NAD - No Asbeston Extended NA - Not Analyses U. Francisco Seep, Times1*, NVA - No Visual Asbeston.	From Jiang, A.K. Sressier Fronkerjus, Labreadery Flore des Landenny de enny, Screene Fronkerjus, Labreadery Flore des S.C., Luc. The test report relates may to the sherits) Teste state, 84:09, 11 no front covered by NVI.A.P. Hull, secredies state 84:09, Time - 1 to, NVA - No Visias Asbeston)	Perce a or Perce a or Perce a or Performed accreditation Percentage Performed accreditation Percentage Performed Percentage Performed Percentage Perce	es NVI.AP
Skipturesky 28, 2018			Page 3 of 4

ASBESTOS% BY TEM

INSOLUBLE NON-ASBESTOS ENORGANIC %

ACID SOLUBLE INORGANIC %

HEAT SENSITIVE ORGANIC %

SAMPLE WEIGHT (g)

TRSC SAMPLE #

TAT

73.7

22.4

0450

04-12

60

Total Sample(s) Analyzed: 16

2

3.9

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Page 416 4

TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

1350 East Boundary Rand, Salte B, Middethian, VA 23112 + 804-739-1751 + fat: 884-739-1753

	SUMMARY OF BULK ASBESTOS ANALYSIS BY TRANSMISSION ELCTRON MICROSCOPY	ION MICROSCOPY	
CLIENT	Trident Environmental Services, Inc. 500 Oakbrook Lane, Suite E.	TESC LOGIN	ikinih.
	Summerville, SC 20483	DATE OF RECEIPT	8102/61/60
		DATE OF ANALYSIS	81112/12/60
CLIENT PROJECT		DATE OF REPORT	19/24/2018
JOBSITE	1242 Yearnars Hall Rd.	ANALYST	B. Gioka
1			,

Reviewed By Authorized Signatury

Forg Mong, AS Sonar Frenkagen, Laboratury Bereine Inndung Forg, Sonar Frenkagen

This report must not be reproduced except in full with the approval of TESC, Inc. The test report relates only in the tecrnis) tested. This test was performed by an NVIAP according in the Lib analysis by EPA 600 R-93 His fine covered by NVIAP Hist accordington.

[LEGIND NAD - No Asbession Executed' NA - Reit Analysis by EP Funtine Stop, Time - 19s, NVA - No Visual Asbession.

Separathus 28, 2018

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RVICE CENTER	804-739-1753				Loc C Hall Rd			Comments								219	7: 1/04		
TRIANGLE ENVIRONMENTAL SERVICE CENTER	13609 East Boundary Road, Suite B • Midtothian • VA • 23112 • Tel: 804-739-1761 • Fax: 804-739-1763	9-18-16	E: Robin Brown		PROJECT SITE: 1242 Year	On TESC File		الأبه Ansa (أثاء) estA eqan?)							-	Date/Time: (0) - (3	Date/Time 1/11/19	Data/Time:	ete/Time
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Page 37 of 39

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Locatio	n Hanshan S	ene Hall Rel			Date	9-4	NE .
		OF EACH SAMPLE AREA				SECSEMEN MATERIA	
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COMPREHENSIVE ASBESTOS SURVEY

COMMERCIAL BUILDING 5902 HOWARD STREET HANAHAN, SC 29410



Prepared For:

CITY OF HANAHAN Attn: Mrs. Katherine Farias 1255 Yeamans Hall Road Hanahan, SC 29410 (843) 576-5254

Performed By:



Trident Environmental Services, Inc.

Consultants in Industrial Hygiene and Safety 500 Oakbrook Lane, Suite E Summerville, SC 29485 (843) 873-3648

COMPREHENSIVE ASBESTOS SURVEY

Commercial Building 5902 Howard Street Hanahan, SC 29410

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 Asbestos Investigative Procedures Asbestos Abbreviations and Hazard Assessment Key Homogenous Area Estimated Footage Table Asbestos Summary Asbestos Sample Data Table 9 	
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EXECUTIVE SUMMARY

The comprehensive asbestos survey performed by Trident Environmental Services, Inc. on September 19, 2018 of the Commercial Building located at 5902 Howard Street in Hanahan, South Carolina did reveal the presence of asbestos containing building materials. The following summary exhibits the asbestos containing building materials (ACBM) that were identified in the inspection.

Asbestos

Description	Туре
Transite Siding	Category II – Non Friable
Brick Mastic (black)	Category I – Non Friable
Joint Compound	RACM – Friable
Ceiling Panel	RACM – Friable
12" Floor Tile (beige)	RACM – Friable
Floor Tile Mastic (tan)	Category I – Non Friable
Vinyl Sheet Flooring (red/orange)	RACM – Friable

RACM - Regulated Asbestos Containing Material

The identified ACBM includes the item(s) listed above. All removal work of the identified ACBM should be performed by a properly trained and licensed abatement contractor prior to the planned renovation/demolition activities.

Trident Environmental Services, Inc.
Consultants of Industrial Hypere and Safety
200
Summer ride, 2C 2005
Summer ride, 2C 2005

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BACKGROUND

Trident Environmental Services, Inc. was contracted by City of Hanahan to perform a comprehensive asbestos survey of the Commercial Building located at 5902 Howard Street in Hanahan, South Carolina. The survey was performed in order to satisfy the NESHAP requirements for renovation and/or demolition. The structure contains three one bedroom, one bathroom apartments constructed on foundation and consisting of approximately 1,900 square feet. Interior walls and ceilings are drywall with joint compound applied at the seams and patches. Floor finishes include vinyl floor tiles, vinyl sheet flooring, hardwood and carpet. Roofing material consists of asphalt shingles and felt paper. Exterior construction is wood, with wood trim, soffits, eaves doors/windows and transite siding.

Asbestos

The inspection was conducted to identify asbestos-containing building materials (ACBM) which may be disturbed during the renovation/demolition activities. The identification of ACBM will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos fibers. Identification of ACBM also complies with Title 40 Code of the Federal Regulations, Part 61, and South Carolina Department of Health and Environmental Control (SCDHEC) Regulation 61-86.1, along with Title 29 Code of Federal Regulations, Part 1926 enforced by the Occupational Safety and Health Administration (OSHA). The Asbestos Survey describes the investigative procedures utilized, results of the suspect ACBM sampled/analyzed, and recommendations regarding the structures as related to asbestos.

TES
Trident Environmental Services, Inc.
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ASBESTOS SURVEY

Asbestos Investigative Procedures

Trident Environmental Services, Inc. conducted an inspection for suspect ACBM on September 19, 2018 of the Commercial Building located at 5902 Howard Street in Hanahan, South Carolina. It is our understanding that the subject structure will undergo renovation or demolition activities in the near future. The asbestos survey was performed by observing and sampling suspect building materials. Significant destructive testing was not utilized during the inspection. There is a possibility that suspect materials exist in inaccessible areas such as wall cavities and pipe chases. If any additional suspect ACBM are discovered during the course of demolition activities, bulk samples should be extracted to identify the presence, or absence, of asbestos prior to continuation of work activities.

A sampling strategy was developed to provide representative samples for analysis. Samples were then extracted from a variety of suspect ACBM. Bulk samples collected were—recorded on a Chain-of-Custody record and submitted to Trident Environmental Service Center, Inc. (TESC) a Polarized Light Microscopy (PLM) laboratory. The laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology (NIST). TESC is accredited by NVLAP for the analysis of bulk asbestos by PLM (NVLAP Lab Code: 200794-0).

The suspect materials were analyzed by trained microscopists utilizing PLM techniques coupled with dispersion staining in accordance with EPA Test Method Title 40 Code of Federal Regulations, Chapter 1 (1-1-87 edition), Part 763, Subpart F- Appendix A. This method identifies asbestos mineral fibers based on six optical characteristics: morphology, birefringence, refractive index, extinction angle, sign of elongation and dispersion staining colors. The laboratory analysis reports the specific type of asbestos identified (there are six asbestos minerals) and the percentage of asbestos present. The EPA and OSHA defines materials as asbestos containing if an asbestos content of greater than one percent (>1%) is detected in a representative sample.

Non-Friable Organically Bound (NOB) samples were submitted to AmeriSci Richmond Laboratory for analyses by Transmission Electron Microscopy (TEM). SCDHEC requires NOB materials with negative or trace results by PLM to be analyzed by at least one TEM. SCDHEC in accordance with ASTM E 2356-04 defines NOB materials as "materials that are not friable and that consist of fibers and other particulate matter embedded in a solid matrix of asphalt, vinyl or other organic substances." Examples of NOB materials include but are not limited to flooring materials such as vinyl floor tiles, vinyl sheet flooring, adhesives, mastics, asphalt shingles, roofing materials, glazing, caulks, and cove base.



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The EPA classifies ACBM into two categories, friable and non-friable. A friable material creates a greater health hazard due to the fact that it may be "crumbled, pulverized or reduced to powder by the forces expected to act upon it in the course of demolition or renovation operations."

Friable Asbestos material means any material containing more than one percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763 section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10 percent as determined by a method other than point counting by polarized light microscopy (PLM), verify the asbestos content by point counting using PLM.

Category I Non Friable Asbestos-Containing Material (ACM) means asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy.

Category II Non Friable ACM means any material, excluding Category I non friable ACM, containing more than one percent asbestos as determined using the methods specified in appendix A, subpart F, 40 CFR part 763, section I, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. (cement siding, transite board shingles, etc.)

Regulated Asbestos-Containing Material (RACM) means (a) Friable asbestos material, (b) Category I non friable ACM that has become friable, (c) Category I non friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The following section summarizes the sample numbers, locations, type material, asbestos type, percent of asbestos detected, present condition of the asbestos containing material, potential for disturbance, and hazard assessment ratings. The asbestos sample laboratory analyses and chain of custody records are included at the end of this report.

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Asbestos Abbreviations and Hazard Assessment Key

The EPA and SCDHEC require that confirmed ACBM is given a hazard assessment based on its present condition and potential for future disturbance. This hazard assessment is used as a tool for prioritization in future remedial actions regarding the ACBM. The following key demonstrates the criteria that make up the hazard assessment.

Present Condition

F = Friable

G = Good (very localized limited damage)

NF = Non-friable

D = Damaged (<10% distributed and/or <25% localized)

S = Significantly Damaged (≥10% distributed and/or 25% localized)

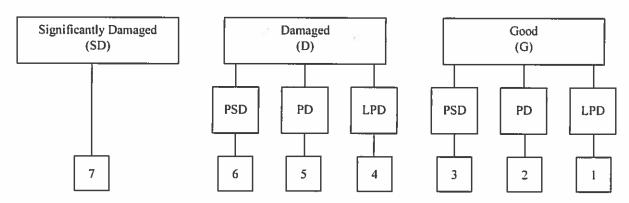
Potential for Future Disturbance

LPD = Low Potential for Disturbance (Contact, Vibration, and/or Air Erosion – low concern)

PD = Potential for Damage (Contact, Vibration, and/or Air Erosion – moderate concern)

PSD = Potential for Significant Damage (Contact, Vibration and/or Air Erosion – high concern)

Hazard Assessment



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HOMOGENOUS AREA ESTIMATED FOOTAGE TABLE Commercial Building – 5902 Howard Street – Hanahan, SC

HOMOGENOUS AREA ID #	DESCRIPTION	ESTIMATED AMOUNT
01	Transite Siding	3,330 SF
02	Siding Felt	3,330 SF
03	Window Glazing	52 SF
04	Exterior Caulk	100 SF
05	Roof Shingle	2,293 SF
06	Roof Felt	2,293 SF
07	Brick Mastie (black)	16 SF
08	MDF Board	280 SF
09	Drywall	4,676 SF
10	Joint Compound	4,956 SF
11	Ceiling Panel	35 SF
12	12" Floor Tile (beige)	189 SF
13	Floor Tile Mastic (tan)	189 SF
14	Vinyl Sheet Flooring (green/red)	329 SF
15	Vinyl Sheet Flooring (gray/red/yellow)	189 SF
16	Vinyl Sheet Flooring (red brick)	50 SF
17	Vinyl Sheet Flooring (blue brick)	160 SF
18	Vinyl Mastic (tan)	160 SF
19	Vinyl Sheet Flooring (12" slate)	194 SF
20	Vinyl Sheet Flooring (9" beige squares)	108 SF
21	Floor Felt Paper	108 SF
22	Vinyl Sheet Flooring (green/beige circle)	108 SF
23	Vinyl Sheet Flooring (green rocks)	108 SF
24	Vinyl Sheet Flooring (red flower)	140 SF
25	Vinyl Sheet Flooring (wood)	290 SF
26	12" Self-Stick Floor Tile (dark slate)	10 SF
27	Vinyl Floor Plank (dark wood)	36 SF
28	Vinyl Sheet Flooring (red/orange)	60 SF

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<u>ASBESTOS SUMMARY</u> Commercial Building – 5902 Howard Street – Hanahan, SC

DESCRIPTION	ТҮРЕ	ESTIMATED AMOUNT		
Transite Siding	Category II - Non Friable	3,330 SF		
Brick Mastic (black)	Category I – Non Friable	16 SF		
Joint Compound	RACM – Friable	4,956 SF		
Ceiling Panel	RACM – Friable	35 SF		
12" Floor Tile (beige)	RACM – Friable	189 SF		
Floor Tile Mastic (tan)	Category I – Non Friable	189 SF		
Vinyl Sheet Flooring (red/orange)	RACM – Friable	60 SF		

RACM - Regulated Asbestos Containing Material

*PACM - Presumed Asbestos Containing Material

SCDHEC requires any non-friable material that is identified in an asbestos inspection report in a condition other than good and non-friable must be handled as a Regulated Asbestos Containing Material (RACM) and identified as friable on the asbestos abatement application. This requirement is reflected in the Asbestos Summary Table listed above.

Asbestos fibers were identified in the Transite Siding. Approximately 3,330 square feet is present and in good condition. This material is considered Category II – Non Friable Asbestos and is located on the exterior.

Asbestos fibers were identified in the Brick Mastic (black). Approximately 16 square feet is present and in good condition. This material is considered Category I – Non Friable Asbestos and is located around the roof.

Asbestos fibers were identified in the Joint Compound. Approximately 4,956 square feet is present and is good condition. This material is considered RACM – Friable Asbestos and is located on the walls and ceilings.

Asbestos fibers were identified in the Ceiling Panel. Approximately 35 square feet is present and is significantly damaged. This material is considered RACM – Friable Asbestos and is located on the Shop ceiling and above the ceiling in Bedroom 4.

Asbestos fibers were identified in the 12" Floor Tile (beige). Approximately 189 square feet is present and in good condition. This material is considered RACM – Friable Asbestos and is located in the Kitchen inside Unit A. (layer 1) Note: Floor Tile Mastic may be located under cabinets or non-load bearing walls.



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Asbestos fibers were identified in the Floor Tile Mastic (tan). Approximately 189 square feet is present and in good condition. This material is considered Category I – Non Friable Asbestos and is located in the Kitchen inside Unit A. (layer 1). Note: Floor Tile Mastic may be located under cabinets or non-load bearing walls.

Asbestos fibers were identified in the Vinyl Sheet Flooring (red/orange). Approximately 60 square feet is present and in good condition. This material is considered RACM — Friable Asbestos and is located in the Bathroom inside Unit C. Note: Floor Tile Mastic may be located under cabinets or non-load bearing walls.

The estimated quantities provided should be verified by contractor and/or building owner. Any discrepancies are to be addressed prior to removal of ACM. Please note that removal costs vary depending on the contractor, the quantity/condition of the ACM, and the accessibility/location of the ACM.

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ASBESTOS SAMPLE DATA TABLE Commercial Building - 5902 Howard Street - Hanahan, SC

DESCRIPTION OF EACH SAMPLE AREA			LABORATORY		ASSESSMENT OF MATERIALS		
Homogeneous Area & Description Sample ID			Friable (Y/N)	Asbestos Present		Condition	Hazard
	Description	Location/Room #		Percent	Asbestos	Assessment Category	Assessment Category
01-01	Transite Siding	Exterior Siding	N	20.0%	CHRY	7	3
01-02	Transite Siding	Exterior Siding	N	NT	PACM	7	3
01-03	Transite Siding	Exterior Siding	N	NT	PACM	7	3
02-04	Siding Felt	Exterior Siding	N	0.0%	ND	7	N/A
02-05	Siding Felt	Exterior Siding	N	0.0%	ND	7	N/A
02-06 T	Siding Felt	Exterior Siding	N	0.0%	ND	7	N/A
03-07	Window Glazing	Window 1	Y	0.0%	ND	7	N/A
03-08	Window Glazing	Window 2	Y	0.0%	ND	7	N/A
03-09 T	Window Glazing	Window 3	Y	0.0%	ND	7	N/A
04-10	Exterior Caulk	Window 1	N	0.0%	ND	7	N/A
04-11	Exterior Caulk	Door 1	N	0.0%	ND	7	N/A
04-12 T	Exterior Caulk	Door 2	N	<1.0%	CHRY	7	N/A
05-13	Roof Shingle	Exterior Roof	N	0.0%	ND	7	N/A
05-14	Roof Shingle	Exterior Roof	N	0.0%	ND	7	N/A
05-15 T	Roof Shingle	Exterior Roof	N	0.0%	ND	7	N/A
06-16	Roof Felt	Exterior Roof	N	0.0%	ND	7	N/A
06-17	Roof Felt	Exterior Roof	N	0.0%	ND	7	N/A
06-18 T	Roof Felt	Exterior Roof	N	0.0%	ND	7	N/A
07-19	Brick Mastic (black)	Exterior Roof	N	10.0%	CHRY	7	1
07-20	Brick Mastic (black)	Exterior Roof	N	NT	PACM	7	1
07-21 T	Brick Mastic (black)	Exterior Roof	N	NT	PACM	7	1
08-22	MDF Board	Living Room B	Y	0.0%	ND	7	N/A
08-23	MDF Board	Living Room B	Y	0.0%	ND	7	N/A
08-24	MDF Board	Living Room B	Y	0.0%	ND	7	N/A
09-25	Drywall	Bedroom A	Y	0.0%	ND	7	N/A
09-26	Drywall	Bedroom A	Y	0.0%	ND	7	N/A
09-27	Drywall	Bedroom A	Y	0.0%	ND	7	N/A
10-28	Joint Compound	Living Room A	Y	2.0%	CHRY	4	3
10-29	Joint Compound	Living Room A	Y	NT	PACM	4	3

- <u>Assessment Categories</u>
 (1) Thermal Systems Insulation Good Condition
- (2) Thermal Systems Insulation Damaged
- (3) Thermal Systems Insulation -Significantly Damaged
- (4) Surfacing Good Condition
- (5) Surfacing Damaged
- (6) Surfacing Significantly Damaged (7) Miscellaneous Good Condition (8) Miscellaneous Damaged

- (9) Miscellaneous Significantly Damaged

Asbestos Present

TREM - Tremolite

AMOS - Amosite ACTI - Actinolite CHRY - Chrysotile ND - None Detected

CROC - Crocidolite NT = Not Tested ANTH - Anthophylite PACM - Presumed ACM

Asbestos Detected



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ASBESTOS SAMPLE DATA TABLE Commercial Building - 5902 Howard Street - Hanahan, SC

DESCRIPTION OF EACH SAMPLE AREA			LABORATORY		ASSESSMENT OF MATERIALS		
Homogeneous Area & Sample ID	Description Lo		Friable (Y/N)	Asbestos Present		Condition	Hazard
		Location/Room #		Percent	Asbestos	Assessment Category	Assessmen Category
10-30	Joint Compound	Bedroom A	Y	NT	PACM	4	3
10-31	Joint Compound	Bedroom 2 B	Y	NT	PACM	4	3
10-32	Joint Compound	Living Room B	Y	NT	PACM	4	3
10-33	Joint Compound	Kitchen B	Y	NT	PACM	4	3
10-34	Joint Compound	Bedroom 1 B	Y	NT	PACM	4	3
11-35	Ceiling Panel	Shop	Y	98.0%	CHRY	9	7
11-36	Ceiling Panel	Shop	Y	NT	PACM	9	7
11-37	Ceiling Panel	Shop	Y	NT	PACM	9	7
12-38	12" Floor Tile (beige)	Kitchen A - Layer 1	Y	2.0%	CHRY	7	1
12-39	12" Floor Tile (beige)	Kitchen A - Layer 1	Y	NT	PACM	7	1
12-40	12" Floor Tile (beige)	Kitchen A - Layer 1	Y	NT	PACM	7	1
13-41	Floor Tile Mastic (tan)	Kitchen A - Layer 1	N	0.0%	ND	7	N/A
13-42	Floor Tile Mastic (tan)	Kitchen A - Layer 1	N	0.0%	ND	7	N/A
13-43	Floor Tile Mastic (tan)	Kitchen A - Layer 1	N	<1.9%	CHRY	7	1
14-44	Vinyl Sheet Flooring (green/red)	Kitchen A – Layer 2	Y	0.0%	ND	7	N/A
14-45	Vinyl Sheet Flooring (green/red)	Living Room A Layer 2	Y	0.0%	ND	7,	N/A
14-46 T	Vinyl Sheet Flooring (green/red)	Bedroom 3 Layer 2	Y	0.0%	ND	7	N/A
15-47	Vinyl Sheet Flooring (green/red/yellow)	Kitchen A – Layer 3	Y	0.0%	ND	7	N/A
15-48	Vinyl Sheet Flooring (green/red/yellow)	Kitchen A – Layer 3	Y	0.0%	ND	7	N/A
15-49 T	Vinyl Sheet Flooring (green/red/yellow)	Kitchen A – Layer 3	Υ	0.0%	ND	7	N/A
16-50	Vinyl Sheet Flooring (red brick)	Kitchen A – Layer 1	Y	0.0%	ND	7	N/A
16-51	Vinyl Sheet Flooring (red brick)	Kitchen A – Layer 1	Y	0.0%	ND	7	N/A
16-52 T	Vinyl Sheet Flooring (red brick)	Kitchen A – Layer I	Y	0.0%	ND	7	N/A
17-53	Vinyl Sheet Flooring (blue brick)	Living Room A Layer 1	Y	0.0%	ND	7	N/A

- Assessment Categories
 (1) Thermal Systems Insulation Good Condition
- (2) Thermal Systems Insulation Damaged
- (3) Thermal Systems Insulation -Significantly Damaged
- (4) Surfacing Good Condition -
- (5) Surfacing Damaged
- (6) Surfacing Significantly Damaged (7) Miscellaneous Good Condition (8) Miscellaneous Damaged

- (9) Miscellaneous Significantly Damaged

Asbestos Present

ANTH - Anthophylite

TREM - Tremolite

AMOS - Amosite ACTI - Actinolite CHRY - Chrysotile ND - None Detected CROC - Crocidolite NT - Not Tested

PACM - Presumed ACM

Asbestos Detected



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ASBESTOS SAMPLE DATA TABLE Commercial Building - 5902 Howard Street - Hanahan, SC

DESCRIPTION OF EACH SAMPLE AREA			LABORATORY		ASSESSMENT OF MATERIALS		
Homogeneous Area & Sample ID		Location/Room #	Friable (Y/N)	Asbestos Present		Condition	Hazard
	Description			Percent	Asbestos	Assessment Category	Assessmen Category
17-54	Vinyl Sheet Flooring (blue brick)	Living Room A Layer 1	Y	0.0%	ND	7	N/A
17-55 T	Vinyl Sheet Flooring (blue brick)	Living Room A Layer 1	Y	0.0%	ND	7	N/A
18-56	Vinyl Mastic (tan)	Living Room A Layer I	N	0.0%	ND	7	N/A
18-57	Vinyl Mastic (tan)	Living Room A Layer I	N	0.0%	ND	7	N/A
18-58 T	Vinyl Mastic (tan)	Living Room A Layer I	N	0.0%	ND	7	N/A
19-59	Vinyl Sheet Flooring (12" slate)	Living Room A Layer 1	Y	0.0%	ND	7	N/A
19-60	Vinyl Sheet Flooring (12" slate)	Living Room A Layer 1	Y	0.0%	ND	7	N/A
19-61 T	Vinyl Sheet Flooring (12" slate)	Kitchen B Layer 1	Y	0.0%	ND	7	N/A
20-62	Vinyl Sheet Flooring (9" beige squares)	Bathroom A Layer 1	Y	0.0%	ND	7	N/A
20-63	Vinyl Sheet Flooring (9" beige squares)	Bathroom A Layer I	Y	0.0%	ND	7	N/A
20-64 T	Vinyl Sheet Flooring (9" beige squares)	Bathroom A Layer 1	Y	0.0%	ND	7	N/A
21-65	Floor Felt Paper	Bathroom A Layer 2	N	0.0%	ND	7	N/A
21-66	Floor Felt Paper	Bathroom A Layer 2	N	0.0%	ND	7	N/A
21-67 T	Floor Felt Paper	Bathroom A Layer 2	N	0.0%	ND	7	N/A
22-68	Vinyl Sheet Flooring (green/beige circle)	Bathroom A Layer 3	Y	0.0%	ND	7	N/A
22-69	Vinyl Sheet Flooring (green/beige circle)	Bathroom A Layer 3	Y	0.0%	ND	7	N/A
22-70 T	Vinyl Sheet Flooring (green/beige circle)	Bathroom A Layer 3	Y	0.0%	ND	7	N/A
23-71	Vinyl Sheet Flooring (green rocks)	Bathroom A Layer 4	Y	0.0%	ND	7	N/A
23-72	Vinyl Sheet Flooring (green rocks)	Bathroom A Layer 4	Y	0.0%	ND	7	N/A
23-73 T	Vinyl Sheet Flooring (green rocks)	Bathroom A Layer 4	Y	0.0%	ND	7	N/A

Assessment Categories
(1) Thermal Systems Insulation – Good Condition

(2) Thermal Systems Insulation - Damaged

(3) Thermal Systems Insulation -Significantly Damaged

(4) Surfacing - Good Condition

(5) Surfacing – Damaged(6) Surfacing – Significantly Damaged

(7) Miscellaneous - Good Condition

(8) Miscellaneous - Damaged

(9) Miscellaneous - Significantly Damaged

Asbestos Present

AMOS - Amosite ACTI - Actinolite

CHRY - Chrysotile ND - None Detected CROC - Crocidolite NT - Not Tested

ANTH - Anthophylite PACM - Presumed ACM TREM - Tremolite Asbestos Detected

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Summersiles 8C 25465

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ASBESTOS SAMPLE DATA TABLE Commercial Building – 5902 Howard Street – Hanahan, SC

DESCRIPTION OF EACH SAMPLE AREA			LABOR	LABORATORY		ASSESSMENT OF MATERIALS	
Homogeneous Area & Description Sample ID		Location/Room #	Friable (Y/N)	Asbestos Present		Condition	Hazard
	Description			Percent	Asbestos	Assessment Category	Assessment Category
24-74	Vinyl Sheet Flooring (red flower)	Bedroom 3 Layer 3	Y	0.0%	ND	7	N/A
24-75	Vinyl Sheet Flooring (red flower)	Bedroom 3 Layer 3	Y	0.0%	ND	7	N/A
24-76 T	Vinyl Sheet Flooring (red flower)	Bedroom 3 Layer 3	Y	0.0%	ND	7	N/A
25-77	Vinyl Sheet Flooring (wood)	Living Room B Layer I	Y	0.0%	ND	7	N/A
25-78	Vinyl Sheet Flooring (wood)	Living Room B Layer I	Y	0.0%	ND	7	N/A
25-79 T	Vinyl Sheet Flooring (wood)	Living Room B Layer I	Y	0.0%	ND	7	N/A
26-80	12" Self-Stick Floor Tile (dark slate)	Kitchen B Layer I	N	0.0%	ND	7	N/A
26-81	12" Self-Stick Floor Tile (dark slate)	Kitchen B Layer I	N	0.0%	ND	7	N/A
26-82 T	12" Self-Stick Floor Tile (dark slate)	Kitchen B Layer I	N	0,0%	ND	7	N/A
27-83	Vinyl Floor Plank (dark wood)	Bathroom B Layer 1	Y	0.0%	ND	7	N/A
27-84	Vinyl Floor Plank (dark wood)	Bathroom B Layer 1	Y	0.0%	ND	7	N/A
27-85 T	Vinyl Floor Plank (dark wood)	Bathroom B Layer 1	Y	0.0%	ND	7	N/A
28-86	Vinyl Sheet Flooring (red/orange)	Bathroom C Layer 1	Y	20.0%	CHRY	7	3
28-87	Vinyl Sheet Flooring (red/orange)	Bathroom C Layer 1	Y	NT	PACM	7	3
28-88	Vinyl Sheet Flooring (red/orange)	Bathroom C Layer 1	Y	NT	PACM	7	3

Assessment Categories

- (1) Thermal Systems Insulation Good Condition
- (2) Thermal Systems Insulation Damaged
- (3) Thermal Systems Insulation Significantly Damaged
- (4) Surfacing Good Condition

(5) Surfacing - Damaged

- (6) Surfacing Significantly Damaged
- (7) Miscellaneous Good Condition
- (8) Miscellaneous Damaged
- (9) Miscellaneous Significantly Damaged

Asbestos Present

TREM - Tremolite

AMOS – Amosite
CIIRY – Chrysotile
CROC – Crocidolite
ANTH – Anthophylite
ANTH – Anthophylite

Asbestos Detected



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CONCLUSIONS/RECOMMENDATIONS

Asbestos Inspection

The comprehensive asbestos survey performed by Trident Environmental Services, Inc. on September 19, 2018 of the Commercial Building located at 5902 Howard Street in Hanahan, South Carolina did reveal the presence of ACBM. Renovation or demolition activities that will disturb the ACBM will require removal per state and federal regulations. Asbestos materials can become hazardous when, due to damage, disturbance, or deterioration over time, they release asbestos fibers into the air of the building. All areas that contain asbestos should be utilized in a controlled manner to reduce the potential for disturbance. OSHA requires notification to all trades/contractors about the condition of the ACBM to prevent possible occupational exposures.

Demolition activities in public and commercial buildings are regulated by OSHA, EPA, and SCDHEC. Code 40 of Federal Regulations Part 61, Subpart M, Final Rule, "National Emissions Standards for Hazardous Air Pollutants" (NESHAP), and SCDHEC Regulation 61-86.1 require the proper removal and disposal of ACBM that is affected by renovation or demolition. Demolition of the subject structures will require written notification, proper transportation, and disposal per state and federal regulations.

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HOMOGENEOUS AREA 01 TRANSITE SIDING



HOMOGENEOUS AREA 02 SIDING FELT



HOMOGENEOUS AREA 03 WINDOW GLAZING



HOMOGENEOUS AREA 04 EXTERIOR CAULK



HOMOGENEOUS AREA 05 ROOF SHINGLE



HOMOGENEOUS AREA 06 ROOF FELT

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HOMOGENEOUS AREA 07 BRICK MASTIC (BLACK)



HOMOGENEOUS AREA 08 MDF BOARD



HOMOGENEOUS AREA 09 DRYWALL



HOMOGENEOUS AREA 10 JOINT COMPOUND

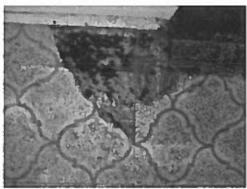


HOMOGENEOUS AREA 11 CEILING PANEL



HOMOGENEOUS AREAS 12, 13 12" FLOOR TILE (BEIGE) MASTIC (TAN)

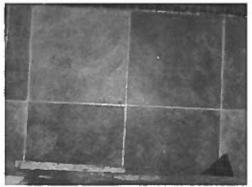
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HOMOGENEOUS AREA 14 VINYL SHEET FLOORING (GREEN/RED)



HOMOGENEOUS AREA 16 VINYL SHEET FLOORING (RED BRICK)



HOMOGENEOUS AREA 19 VINYL SHEET FLOORING (12" SLATE)



HOMOGENEOUS AREA 15 VINYL SHEET FLOORING (GRAY/RED/YELLOW)



HOMOGENEOUS AREAS 17, 18 VINYL SHEET FLOORING (BLUE BRICK) MASTIC (TAN)



HOMOGENEOUS AREA 20 VINYL SHEET FLOORING (9" BEIGE SQUARES)

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HOMOGENEOUS AREA 21 FLOOR FELT PAPER



HOMOGENEOUS AREA 23 VINYL SHEET FLOORING (GREEN ROCKS)



HOMOGENEOUS AREA 25 VINYL SHEET FLOORING (WOOD)



HOMOGENEOUS AREA 22 VINYL SHEET FLOORING (GREEN/BEIGE SQUARES)



HOMOGENEOUS AREA 24 VINYL SHEET FLOORING (RED FLOWER)



HOMOGENEOUS AREA 26 12" SELF-STICK TILE (DARK SLATE)

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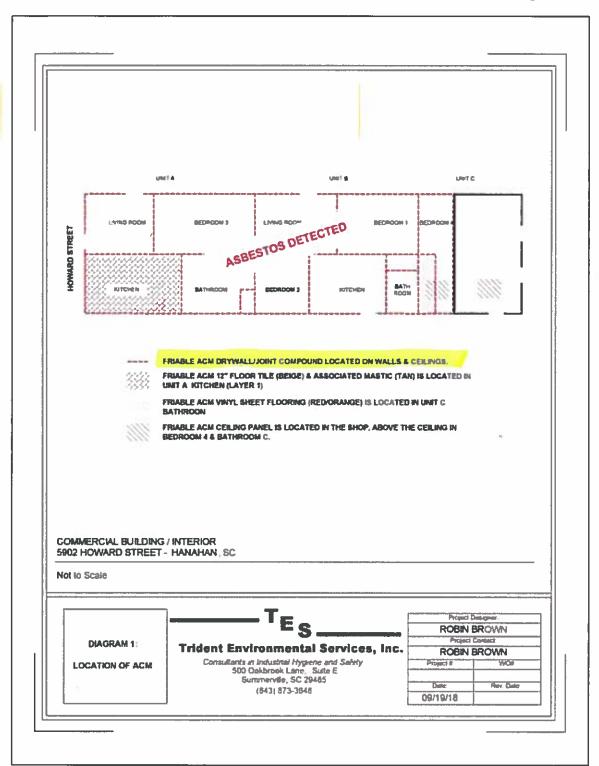


HOMOGENEOUS AREA 27 VINYL FLOOR PLANKS (DARK WOOD)

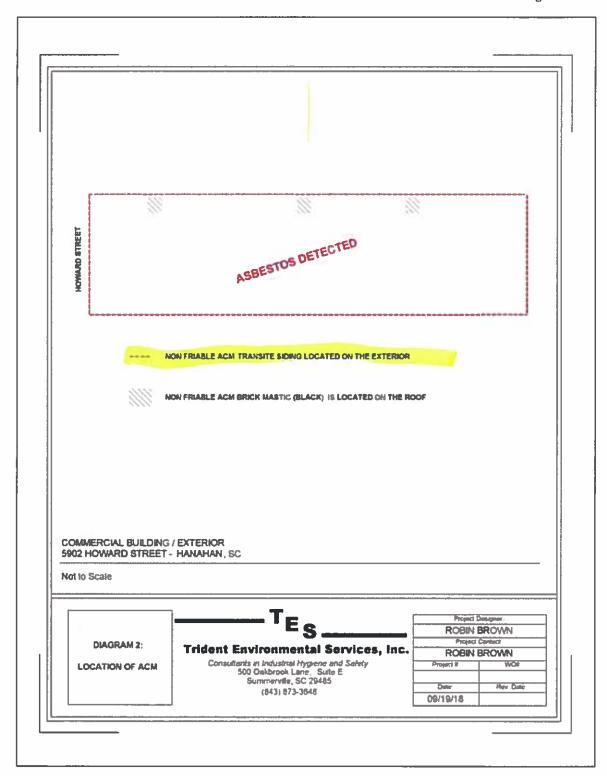


HOMOGENEOUS AREA 28 VINYL SHEET FLOORING (RED/ORANGE)

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ental Services, Inc.

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COMPREHENSIVE ASBESTOS SURVEY

Inspection Date: 09/19/2018

Preparation Date: 10/03/2018

Inspected & Prepared By:

Hunter Hans

Hunter Hanson S.C. Inspector License BI - 01468

SCDHEC ISSUED

Asbestos ID Card

Hunter Hanson

CONSULTB! B1-01468 AIRSAMPLER AS-00413

10/28/18

Reviewed By:

Hell Brusels.

Robin A. Brown S.C. Inspector License BI – 00613

SCDHEC ISSUED

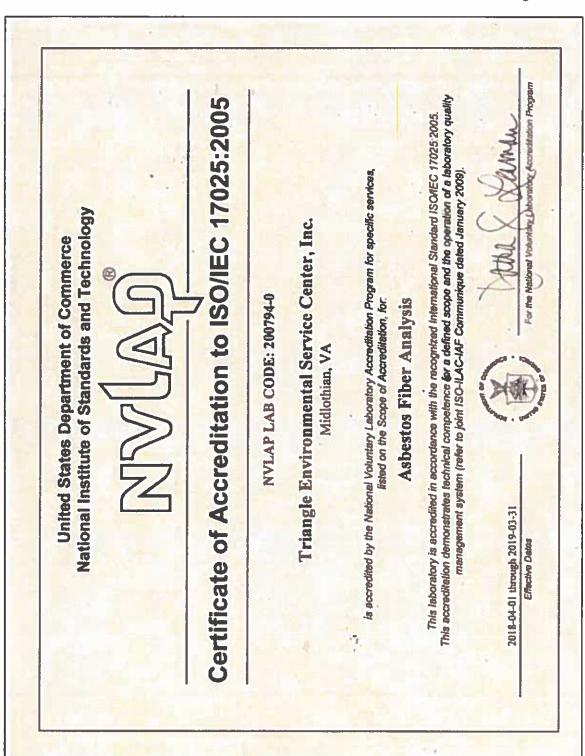
Asbestos ID Card

Robin Brown

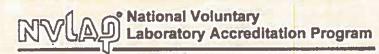
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06/14/19 06/26/19

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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Triangle Environmental Service Center, Inc.

13509 East Boundary Road, Suite B Midlothian, VA 23112 Mr. Feng Jinng

Phone: 804-739-1751 Fax: 804-739-1753

Email: info@tesclab.com http://www.tesclab.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200794-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA - 40 CFR Appendix E to Sobpart E of Part 763, Interim Method of the Determination of Asbertos in Bulk Insulation Samples

15/A03

EPA 600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary L

Effective 2018-04-01 through 2019-03-31

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National Institute of Standards and Technology United States Department of Commerce



Certificate of Accreditation to ISO/IEC 1

NVLAP LAB CODE: 101904-0

AmeriSci Richmond Midlothian, VA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for

Asbestos Fiber Analysis

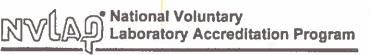
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025-2005. management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).



For the National Voluntiday L

2018-07-01 through 2019-06-30

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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci Richmond dba AmeriSci Richmond 13635 Genito Road Midlothian, VA 23112 Mr. Thomas B. Keith

Phone: 804-763-1200 Fax: 804-763-1800 Email: bkeith@ameriscl.com http://www.amerisci.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101904-0

Bulk Asbestos Analysis

Code

Description

10/401

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of

Asbestos in Bulk Insulation Samples

14/A03

EPA 600/R-93/116; Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in

40 CFR, Part 763, Subpart E, Appendix A

For the National Voluntary Liboratory Accreditation Program

I ffective 2018-07-01 through 2019-06-30

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midlothian, VA 23112 804-739-1751 - fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc.

500 Oakbrook Lane, Suite E Summerville, SC 29485

TESC LOGIN # 180920T

DATE OF RECEIPT: 09/20/2018 DATE OF ANALYSIS 09/20/2018 DATE OF REPORT: 09/20/2018

CLIENT JOB/#: 5902 Howard Street

JOB SITE Hanaban, SC

ANALYST B Trimunci

TESC SAMPLK#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
I	(01-01) / Gray granular, white fibers	20% Chrysotile		107%
2	01-02 /	Positive Stop		100%
1	01-03 /	Pusitive Stop		100%
4	02-04 / Black tar-like	NAD	20% Cellulose	30%
5	02-05 / Black tar-like	NAD	20% Cellulose	16U%
6	D24M6 /	Not Analyzed		100%
7	03-07 / White powder	NAD		100%
8	03-08 / White powder	NAD		100%
9	03-419 /	Not Analyzed		100%
10	04-10 / White adhesive	NAD		100%

Samples are small zed in accordance with "Interior Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/6007k-93-116, July 1993 (FPA-640/M-1-82-020). Dec 1982), or the current US EPA method for the analysis of ashestos in building material. None Detected not detected after helps the detected limit of method (Reporting limit, 1% Abbestos). Class fiber is analyzed for quality control blank. IESC recommends by point count or Transmission Floctron Microscopy (TEM), for insternals regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pullulants) and found to contain less than ten percent (<10%) ashestor by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Iriangle Environmental Service Center, Inc. This test report relates only to the item(s) tested

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Ashestos Detected, I mo =I moleum, JC=Jount Compound]

Reviewed By Authorized Signatory:

Feng Jiang, 48 Senior Geologist, Laboratory Director

Lucking Fame, Senior Geologist

Sentember 25, 2019

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midhithian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT Indent Environmental Services, Inc.

500 Oakbrook Lane, State E Summerville, SC 29485 TESC LOGIN #: 180920T

DATE OF RECEIPT: 09/20/2018
DATE OF ANALYSIS 09/20/2018
DATE OF REPORT: 09/20/2018

CLIENT JOB/#: 5902 Howard Street

JOB SITE Hambun, SC

ANALYST: B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
11	04-11 / White adhesive	NAD		[(K7%)
12	04-12/	Not Analyzed		100%
13	05-13 / Black tur-like	NAD	10% Fiberglass	90%
14	05-14 / Black tar-like	NAD	10% Fiberglass	90%
15	05-157	Not Analyzed		100%
16	06-16 / Black fibers	NAD	98% Cellulose	294
17	06-17 / Black fibers	NAD	98% Cellulose	2%
18	06-18 /	Not Analyzed	aller mårdid å aller årde et år aller årde å ågen er mårde årde årde årde årde årde årde årde	100%
19	07-19 / Black adhesive	10% Chrysotile	5% Cellulose	85%
20	07-20 /	Positive Stop		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (FPA-600/M-82-020, Dec 1982), or the current US FPA method for the analysis of asbestos in building material. None Detected: not detected after below the detected limit of method (Reporting limit: 1% Asbestos), Glass filter is analyzed for quality control blank. IESC recommends by point count to Transmissions Electron Microscopy (TLM), for materials regulated by the EPA NESIAPA (National Emission Standards for Bazardous Art Pollutants) and found in contain less than ten percent (<10%) arbeits by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the item(s) tested.

NVLAF Lab Code: 200794-0

[LEGEND NAD=No Ashestos [Aracted, I mn +1 moleum, JC+Joint Compound]

Reviewed By Authorized Signatory

Fireg Jung, MS Senior Geologist, Laboratory Director

Lucdong Fung, Semar Geologist

September 25, 20 la

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services. Inc.

500 Oakbrook Lane, Suite E Summerville, SC 29485

DATE OF RECEIPT: 09/20/2018
DATE OF ANALYSIS 09/20/2018
DATE OF REPORT: 09/20/2018

TESC LOGIN # 180920T

CLIENT JOB/# :: 5902 Howard Street

JOB SITE: Hanahan, SC

ANALYST: B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
21	07-21/	Positive Stop		100%
23	08-22 / Brown fibers	NAD	98% Cellulose	2%
23	118-23 / Brown fibers	NAD	98% Cellulose	2%
24	08-24 / Brown fibers	NAD	98% Cellulose	254
25	193-25 / White powder, brown fibers	NAD	20% Cellulose	MISS
26	19-26 / White powder, brown fibers	NAD	20% Cellulose	80%
27	09-27 / White powder, brown fibers	NAD	20% Cellulose	MEG
28	10-28 / White powder	2% Chrysotile		98%
29	10-29 /	Positive Stop		100%
30	10-30 /	Positive Stop		100%

Samples are smalyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/R-93-020, Doc 1982), or the current US FPA method for the malysis of asbestos in building material None Detected: not detected into below the detected limit of method (Reporting limit 156 Asbestos). Glain filter is analyzed for quality control blank. IESC recommends by point count of Transmissions Flexton Microscopy (TEM), for materials regulated by the UPA NESHAP (National Emission Standards for Hazardous Art Pulletins) and found to contain less than ten percent extroly indenses by Polarized Light Microscopy (PLM). Both scruces are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item/s) tested

NVLAP Lab Code 200794-0

[LEGEND NAD=No Ashestos Datected, I mo =1 inoleum, JC+Joint Compound]

Reviewed By Anthorized Signatury:

Fing Jiang, MS Senior Geologist, Laboratory Director Yurdong Fang, Senior Geologist

September 23, 2918

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc.

500 Oakbrook Lane, Suite E

Summerville, SC 29485

TESC LOGIN # 180920T

DATE OF RECEIPT: 09/20/2018 DATE OF ANALYSIS 09/20/2018

DATE OF ANALYSIS 09/20/2018 DATE OF REPORT: 09/20/2018

CLIENT JOB/#: 5902 Howard Street

JOB SITE. Hanaban, SC

ANALYST B Trimmer

TESC SAMPLE #	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
31	10-417	Positive Stop		100%
12	10-32 /	Positive Stop		100%
13	10-337	Positive Stop		100%
14	10-347	Positive Stop		100%
35	11-35 / Gray, whate fibers	98% Chrywtile		294
36	H-36/	Positive Stop		100%
37	11-37/	Positive Stop		100%
38	12-38 / Tan viry l	2% Chrysotile		98%
39	12-39 /	Positive Stop		100%
40	12-407	Positive Step		100%
41	13-41 / Brown adhesive	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/660/R-93-116, July 1993 (EPA-688/MH-82-020, Dec 1982), or the extrent US FPA method for the analysis of asbestos in building material. None Detected not detected attor below the detected limit of method (Reporting limit 198 Asbestos). Claus fiber is analyzed for quality control blank. IESC recommends by point count to runnamension Electron Microscopy (TLM), for materials regulated by the EPA NESIAN (National Emission Standards for Hazindous Air Pullutants) and found to contain less than ten percent (<1094) releases by Polatized Light Microscopy (PLM). Both services are available for an additional lice. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the stends i tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD-No Ashestos Detected, I mo #1 moleum, JC#Joint Compound]

Reviewed By Authorized Signatury:

Feng Jiang, VS Senior Geologist, Laboratory Director Yurdong Fang, Senior Geologist

September 21, 2018

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112 884-739-1751 • fax: 884-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT Trident Environmental Services, Inc

500 Oakbrook Lane, Suite E Summerville, SC 29485

DATE OF RECEIPT: 09/20/2018 DATE OF ANALYSIS 09/20/2018

TESC LOGIN # 180920T

DATE OF REPORT: 09/20/2018

CLIENT JOB/#: 5902 Howard Street

JOB SITE Hamban, SC

ANALYST B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED 94 ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS 4 MATERIALS
42	13-42 / Brown adhesive	NAD		\$107%
17	13-437/	Not Analyzed		100%
44	14-44 / Black lino , fibers	NAD	20% Cellulose	20176
45	14-45 / Black line., fibers	NAD	20% Cellulose	39.17ú
46	14-46/	Not Analyzed		100%
47	15-47 / Yellow, red lino , black fibers	NAD	20% Cellulose	20175
48	15-48 / Yellow, red line ; black fibers	NAD	20% Cellulose	80%
49	15-49/	Not Analyzed		100%
50	16-50 / Brown lino gray fibers	NAD	20% Cellulose 10% Fiberglass	70%
51	16-51 / Brown lino , gray fibers	NAD	20% Cellulose 10% Fiberglass	7176

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk, Insulation Samples", EP/O600R-93-116, July 1993 (FP/A-080/M-93-2020, Dec 1982), or the current US EPA method for the analysis of asbestos in building interial. None Detected: not detected after below the detected limit of method (Reporting limit, 1% Asbestos). Glass fiber is malyzed for quality control blank. (EEC recommends by point count or transmission Flectron Microscopy (TEM), for materials regulated by the LPA NESDLAP (National Emission Standards for Houndons Air Pollutants) and found to contain less than ten percent (*10%) inhesion by Polarized Light Microscopy (TEM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc., This test report relates only to the stem(s) tested

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Ashestos Detected, I mo =Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatury:

Feng Jiang, MS Senior Geologist, Laboratory Director Furding Fang, Senior Geologist

September 25, 2018

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midiathian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc

500 Oakbrook Lane, Suite E Summerville, SC 29485 TESC LOGIN 0 180920T

DATE OF RECEIPT: 09/24/2018
DATE OF ANALYSIS 09/20/2018
DATE OF REPORT: 09/20/2018

CLIENT JOB/#; 5902 Howard Street

JOB SITE: Hamiban, SC

ANALYST B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED 94 ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
52	16-52 /	Not Analyzed		100%
57	17-53 / Blue lino., gray fibers	NAD	20% Cellulose 5% Fiberglass	75%
34	17-54 / Blue lino., gray fibers	NAD	20% Cellulose 5% Fiberglass	75%
55	17-55 /	Not Analyzed		100%
56	18-56 / Yellow adhesive	NAD		100%
57	18-57 / Yellow adhesive	NAD		100%
58	18-58 /	Not Analyzed		100%
59	19-59 / Brown linoleum	NAD		100%
60	19-(a) / Brown linoleum	NAD		1002/
61	19-61 /	Not Analyzed		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bull, Insulation Samples", EPA-600/M4-82-4(20), Dec 1982), or the current US FPA method for the mishysis of asbestos in building material. None Detected, not detected after below the detected limit of method (Reporting limit; 1% Asbestos). Glass fiber is analyzed for quality control blank. IESC recommends by point count or Immunishma Flection Microscopy (TFM), for materials regulated by the LPA NESHAP (National Emission Standards for Hazardous An Pollulants) and found to contain less than ten percent (<10%) advestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of friungle Environmental service Center, Inc. This test report relative only to the item(a) tested

NVLAF Lab Code 20079-1-0

[LEGEND | NAD=No Ashestor [Artected, Lino +1 inoleum, JC+Joint Compound]

Reviewed By Authorized Signatory:

Feng Jiang, MS Senior Geologist, Laboratory Director Funding Fang, Senior Geologist

September 23, 20 R

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlethian, VA 23112 804-739-1751 - fex: 884-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT Trident Environmental Services, Inc.

500 Oakbrook Lane, Suite E

Summerville, SC 29485

TESC LOGIN # 180920T

DATE OF RECEIPT: 09/20/2018 DATE OF ANALYSIS 09/20/2018 DATE OF REPORT: 09/20/2018

CLIENT JOB/#: 5902 Howard Street

JOB SITE Hamban, SC

ANALYST B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
62	20-62 / Gray Irno , fibers	NAD	20% Cellulose	80%
63	20-63 / Gray lino fibers	NAD	20% Cellulose	805 ₆
64	20-64 /	Not Analyzed		100%
65	21-65 / Black fibers	NAD	98% Cellulose	2%
66	21-66 / Black fibers	NAD	98% Cellulose	2%
67	21-67/	Not Analyzed	the second feet and feet and	100%
68	22-68 / Green, blue lino , black fibers	NAD	20% Cellulose	NU%
69	22-69 / Green, blue lino , black fibers	NAD	20% Cellulose	80%
70	22-70/	Not Analyzed		100%

Samples are snalyzed in accordance with "Interim Method for the Determination of Asbestos in Bull, Insulation Samples", EPA/600/R-93-116, July 1993 (FPA-440/M4-82-020) Dec 1982), or the current US EPA method for the analysis of ashestos in hadding material. None Detected: not detected at/or below the detected limit of method (Reporting limit, 1% Abbestos). Glass fiber is made sed for quality coursed blank. TESC recommends by point count to Fransmission Electron Microscopy (TFM), for materials negulated by the UPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found in contain less than ten percent (<10%) ashestos by Polarized Light Microscopy (FFM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Friangle Environmental Service Center, Inc., This test report relates only to the item(s) tested

NVI AP Lab Code 20079440

[LEGEND NAD=No Ashestos [Artected, I mo =1 moleum, JC=Joint Compound]

Reviewed By Authorized Signatory;

Fing Jung, VS Senior Geologist, Laboratory Director I medang Fame, Senior Geologist

September 25, 2018

Page 7 of 9

Trident Environmental Services, Inc.

Consultants at Industral Prygram and 3 a fery
SOU Cashrook Line, Suth E
Summerville, SC 25465

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Rand, Suite B, Midlothian, VA 23112 864-739-1751 • fax: 864-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc.

500 Oakbrook Lune, Suite E Summerville, SC 29485

DATE OF RECEIPT: 09/20/2018

DATE OF ANALYSIS: 09/20/2018

DATE OF REPORT: 09/20/2018

TESC LOGIN #: 180920T

CLIENT IOB/#: 5902 Howard Street

JOB SITE... Hanaban, SC.

ANALYST: B Trimmer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASSESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
71	23-71 / Green lino , black fibers	NAD	20% Cellulose	80196
72	23-72 / Green lino black fibers	NAD	20% Cellulose	80%
73	23-73 /	Not Analyzed		100%
74	24-74 / Red. brown imo black fibers	NAD	20% Cellulose	80%
75	24-75 / Red, brown line , black fibers	NAD		100%
76	24-76 /	Not Analyzed		100%
77	25-77 / Brown linoleum	NAD	5% Fiberglass	95%
78	25-78 / Brown linoleum	NAD	5% Fiberglass	95%
79	25-79 /	Not Analyzed		100%
\$0 ·	26-80 / Brown vim I	NAD		100%

Samples are smalyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/6CO/R-93-116, July 1993 (FPA-600/R-93-02), for the current US FPA method for the mulysis of subsetue in building material. None Detected: not detected into below the detected limit of method (Reporting Hinti: 15% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count of Transmission Electron Microscopy (TFM), for materials regulated by the EPA NESHAP (National Emission Standards for Bazardous Air Pollutants) and found to control less than ten percent (+10%) subsition by Polatical Light Microscopy (PLM). Both services are available for an additional for This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested

NVLAP Lish Code: 2007/14-0

[LEGEND NAID=No Ashestos Datected, I mo =1.moleum, JC=Joint Compound]

Reviewed By Authorized Signatury:

Feng Jiang, MS Senior Geologist, Laboratory Director

Furding Fung, Sentor Geologist

September 25, 2018

Page 2 of 9

Page 34 of 45

TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B. Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Trident Environmental Services, Inc.

500 Oakbrook Lane, Suite E Summerville, SC 29485

TESC LOGIN # 180920T

DATE OF RECEIPT: 09/20/2018 DATE OF ANALYSIS 09/20/2018 DATE OF REPORT: 09/20/2018

CLIENT IOB/#: 5902 Howard Street

JOB SITE. Hanahan, SC

ANALYST B Triminer

TESC SAMPLE#	CLIENT SAMPLE ID A GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
83	26-81 / Brown vinyl	NAD		100%
R2	26-82 /	Not Analyzed		100%
К 3	27-81 / Brown viryl	NAD		100%
14	27-84 / Brown vim l	NAD		100%
85	27-85 /	Not Analyzed		100%
86	28-86 / Red lino., gray fibers	20% Chry sotlic	20% Cethilose	60%
87	28-87 [Positive Stop	600 B F000	100%
88	28-88 /	Positive Stop		100%

Total Samples/Layers Analyzed: 52

Samples are mail zed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/6007R-93-116, July 1993 (FPA-6400A4-82-020 Dec 1982) or the current US FPA method for the malvis of ashestos in hulding maserial. None Detected not detected at/or helps the detected limit of method (Reporting limit 1th Asbestos). Glass fiber is mislived for quality control blank. IESC recommends by point count of Transmission Electron Microscopy (TEM), for insternals regulated by the LPA NUSHAP (National Emission Standards for Hazardous Air Pollutants) and found in contain less than ten percent (<10%) ashestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Trimigle Environmental Service Center, Inc. This test report relates only to the item's) teried

NVI A#1ab Code: 200794-0

[LEGEND NAD=No Ashestos Datected, I mo =Linoleinn, JC=Joint Compound]

Reviewed By Authorized Signatory:

Feng Jiang, MS Senine Geologist, Laboratory Director

Yuedong Fame, Senior Geologist

September 23, 2018

Page 9 of 9

Page 35 of 45

SUMMARY OF BULK ASBESTOS ANALYSIS BY TRANSMISSION ELCTRON MICROSCOPY	Trisc Login # 188920X String Trisc Login # 188920X String Trisc Login # 188920X Summerville, SC 29483 DATE OF RECEIPT: (#)/QU/2018	DATE OF REPORT	SC ANALYST: B. Gjoba	SAMPLE HEAT SENSITIVE ACID SOLUBLE INSOLUBLE NON-ASBESTOS ASBESTOS% BY TEM WENCHT (4) ORGANIC % INORGANIC % INORGANIC %	0.348 50.6 11,2 38.2 NAD	0.272 9.2 87.1 NAD	0.339 20.9 75.8 3.3 <1% Chrysolide	0.42 19.8 44.8 35.4 NAD	0.259 98.9 2.7 4 NAD	Reviewed By Authorized Signatury; Fing Jiang, 187 Scotter (Endinger), Indonesiasy There as Indonesiasy There as Indonesiasy There as Indonesias Indonesiasy There as Indonesias Indonesiasy There are Indonesiasy There are Indonesiasy There are Indonesiasy There are Indonesiasy Indon
	CLIENT. Truke	CLIENT PROJECT # 5902 Howard Street	JOBSITE Handlan, SC TAT 1 Day	TESC CLIENT SAMPLE & SAMPLE	02-08	60-00	3 04-12 Sample presont tayer at old glaze	05-15	06-18	he report must not be created 'H.W.Ih. N. LEGEND NAD - No.

Page 36 of 45

CLIENT. Tradent Environmental Services, Inc. 500 Oakbrook Laser, Suis E. Summerville, SC 29485 CLIENT PROJECT # 5903 Howard Street JORSITE: Handran, SC TAT. TRSC. CLIENT SAMPLE HEA SAMPLE # SAMPLE HEA ###################################				SUMMARY OF BULK ASBESTOS ANALYSIS BY TRANSMISSION ELCTRON MICROSCOPY.	
7	al Services, fr Suite E 485	¥		TESC LOGINAL DATE OF RECEIPT. DATE OF ANALYSIS	NOSONI NOSOSON NINSOS
	_			DATE OF REPORT ANALYST:	
	SAMPLE H	HEAT SENSITIVE ORGANIC %	ACID SOLUBLE INORGANIC %	INSOLUBLE NON-ASBESTOS INORGANIC %	ASBESTOS% BY TEM
15-46	0.147	49	28.3	21.7	<1,9% Chrysotile
15-49	0,169	76.9	20.7	2.4	NAD
Probable communication from black master	0.181	75.2	24,2	6 0	<1% Chrysotile
9 16-52 0.2	0.219	61.2	14.8	24.2	NAD
10 17-55 0.1	0.125	51.2	26.4	224	NAD
Resteued By	Reviewed By Anthorpered Signatury :		Mudory Faug.	Faug.	
The report must not be reproduced except in full with the approval of TESC. Inc. The test report relates only to the items blentable according ITM the. NVLAP Hall according to FPA 40th R-93 116 (not covered by NVLAP Hall according according ITM the. NVLAP Hall according to FPA 40th R-93 116 (not covered by NVLAP Hall according ITM - Not Analyzed, PS - Partite Stop. [time - 14%, NVA - No Visual Ashestar]	s in full wets the	e approval of TESC, Inc analysis by FPA (ARER: salyzed, PS = Pentive SE	The test report relates only (9.3-116 time covered by NVL), on, Trace = -1%, NVA = No.	The report must not be reproduced except in full with the approval of TESC. Inc. The test report relates only to the items bestod. This less was performed by an NVLAP accepted TER Lab. NVLAP Lab 110 villab 110	n an SVIAP
Kyn.cmb.z 23, 2018					Page 2 caf &

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	15	MMARY OF BL	ILK ASBESTOS ANA	LYSIS BY TRANSMIS	MMARY OF BULK ASBESTOS ANALYSIS BY TRANSMISSION ELCTRON MICBOSCOPY	
CLIENT	Tridera Err Son Oakbri Summervill	Tridou Emironnenal Services, Inc 500 Oakbrok Lucc, Suire E Sunmerville, SC 29485	<u>x</u>		TESC LOGIN #	
CLIENT PROJECT #	DECT # 5902 Howard Street	and Street			DATE OF REPORT	19/24/2018 19/25/2018
JOBSITE.	Hanahan, SC	ູນ			ANALYST	B. Gjoka
TRSC SAMPLE#	CLIENT SAMPLE#	SAMPLE WEIGHT (g)	HEAT SENSITIVE ORGANIC %	ACID SOLJIBLE INORGANIC %	INSOLUBLE NOWASBESTOS INORGANIC %	ASBESTOS% BY TEM
Ŧ	18-58	0.145	503	6.2	24. 20.	NAD
12	19-61	0.242	78.5	20.2	6.	NAD
13	20-64	0.201	3 8	43.3	E,	NAD
4.	21-67	0.175	9.98	60 E.	83 83	NAD
15	22.70	0.196	58.7	37.8	ю 19	NAD
		S S S S S S S S S S S S S S S S S S S	And the second s	mapme	Fans	
The rep acredite	The report from the terrepord defrection (11.M. In), NVLAP	wed except in full with the last of the la	Forg. J. Incolor Incolor It the approval of TESC. Inc. IEM analysis by EPA 600.R. I Analysis by EPA 600.R.	Forg. Move of Science Grade grad, Laborathery Devices in Indicated the grade of the grade Laborathery Devices in Indicated to the second secon	Forg. Jan. 2. Jan. 2. Jan. 2. Jan. 2. Li Scatur God. 12th. Laboratory Park to be a ford gith. Laboratory Park to be a ford gith. Laboratory Park to be a ford by the second by the second by the second by the lab in a ford was performed by an NVLAP Lab in a finite by the second by th	n an NVIAP
September 25, 2018	4					Page 3 of 8

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		(9)202018 (9)202018		ASBESTOS% BY TEM	CAD	NAD	NAD	NAD	NAD	en WVIAIP Pape 3 rd 5
TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC. 1300 Fat Boundary Read Suffer B. Middelphen VA 23112 - 884-734-1731	SUMMARY OF BULK ASBESTOS ANALYSIS BY TRANSMISSION ELCTRON MICROSCOPY	TESC LOGIN # DATE OF RECEIFT: DATE OF ANALYSIS:	DATE OF REPORT ANALYST	INSOLUBLE NON-ASBESTOS INORGANIC %	'n	9.0	1,3	2.5	4	Reviewed By Authorized Signatury: From Alang, A.S. Sentar Cerologist. Laboratory Phore as I mechang. In Sentary Phore as I mental as I m
IANGLE ENVIRONMENTAL SERVICE CENTER, 1309 For Demokry Road, Suite B. Midenham, VA 23112 984-734-1751 - Dr. 884-739-1752	ALYSIS BY TRANSMIS			ACID SOLUBLE INORGANIC %	23.1	11.1	39.7	88	72.2	Review and By Anthon lacd Signatury Frog Alasty, A.K. Sentur (Forberg) Frog Alasty, A.K. Sentur (Forbe
E ENVIRONN	ILK ASBESTOS AN	33.		HEAT SENSITIVE ORGANIC %	764	1.08	59	8.5	27.1	thred Stepmanney 1 Frong I model I the approval of TESC, 18 I h.M. analyses by E.PA 6400 in E.
TRIANGL	MMARY OF BU	Trident Environnemal Services, Inc. 500 Oakbrook Lane, Suite E Summerville, SC 20485	and Street	SAMPLE WEIGHT (g)	0,195	0.171	0.29	0.126	0.268	Reviewed By Authorized Signatory; in the second of the approval of the 110 of 110 of 110 of the second of the seco
	ᇌ	Tridera En Soo Oakbr Sumnervil	BECT# 5902 Howard Street Hanehan, SC	CLIENT SAMPLE	23-73	24-76	25-79	26-62	27-85	urt must not be represe tof 1FM lab. NVLA1* (D. NAD – No Asbes
		CLENT	CLIENT PROJECT # JOBSITE. TAT	TESC SAMPLE	16	11	81	19	20	The report accredited [LEGEN]

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Page 5 of 5

TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13549 East Boundary Read, Setter B, Midlethian, VA 23113 • 884-739-1751 • fat: 884-737-1753

SHMMARY OF BULK ASBESTOS ANALYSIS BY TRANSHISSION ELCTRON MICROSCOPY

09/20/2018 09/24/2018 MUSS/2018 B. Gjoka NEWSON DATE OF ANALYSIS DATE OF REPORT DATE OF RECEIPT TESC LOGIN # ANALYST Triden Environnemal Services, Inc. 500 Oakbrook Lone, Suite E. Summerville, SC 29485 CLIENT PROJECT # 5902 Howard Street Hanshan, SC JOBSITE

ASBESTOS% BY TEM

INSOLUBLE NON-ASBESTOS
INORGANIC %

ACID SOLUBLE INORCANC %

HEAT SENSITIVE ORGANIC %

SAMPLE WEXCHT (g)

CLIENT SAMPLE #

SAMPLE

Total Sample(s) Analyzed: 20

Residency By Authorities Signatury:

Forg Mang, MS Norton Fershopes, Laboratory Diere ton Lordong Forg, Service Technique

This report must not be reprinduced except in that with the approval of TESC, Inc. The test report eachers only be the steads that he was performed by an NVLAP acceptable. NVLAP Lib 137 + 101944 - 124 Analysis by EPA 6400 H-93 H6 inno convered by NVLAP Halk accordination.

[LEGEND NAD - No Ashessow [Freezed NA - Nor Analysed, PS - Privative Step, Times - 124, NVA - No Vessal Ashessow [Freezed NA - Nor Analysed, PS - Privative Step, Times - 124, NVA - No Vessal Ashessow.]

Kepterseber 25, 2018

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TRIANGLE ENVIRONMENTAL SERVICE CENTER	• Tel: 804-739-1751 • Fax: 804-739-1753			Hart touch	36			Comments				71.01.0	3-15 vol 908.		
WIROHMENTAL	04-739-1751 • F	3	7-(1-(8	300	Har	On TESC File		(L) antalov vik Whee (fi) Scrape Area (cm)				Date/Time: 3-	5	Date/Time:	Date/Time.
RIANGLE E)	• 23112 • Tet: 8		DATE:	PROJECT #:	PROJECT SITE:	Email: On	Aur Quality//Mold	The state of the s	 1			-			
j-								Toxic Metal Profile							
	13609 East Boundary Road, Suite B . Midfothlan . VA				3 Day: TEMS Day:	6-2040	Other Metals	Drinking Water (Pb) TCLP RCRA 6 CAM 17 Welding Fume	1.		. j	Hans	K		-
	Toad, Suite				3 Day:		Lead	Wpe TCLP (Pb) Waster Water	ì			H water	V		
	Boundary !				- 48 Hour.	Fex:		Scri(PPM) Paint(% & PPM) Ab	1			Signature	Signaturo	Signature	Signature
80920 T	13609 East		Services, Inc		24 Hour, Pur 48 Hour.	3648		PLM Gravimotric CARB 435 (Boil only) TEM AHERA Air							
1809			Trident Environmental Ser 500 Oakbrook Lane - Suite E	SC 29485		843-873-3648	Asbestor	PCM Fiber Count 400 PLM Point Count 1000	6			(Dole)			
MBER:		ODY FORM	: Trident Env 500 Oakhroe	Summarville	& Hour	DD: Phone:		Sample Date MJ9 by PLM	4			H SACA			
TESC LOGIN NUMBER:		CHAIN OF CUSTODY FORM	LAB CUSTOMER: Trident Environmental Services, Inc ADDRESS: 500 Oathrook Lane - Suite E	CITY, STATE, ZIP: Summerville,	TAT: 2 Hour.	CONTACT METHOD: Phone:		nedmun sigme?					Received by	Rolessed by	Received by

TES	
Trident Environmental Services,	Inc.
Consultants in Industrial Hygrane and Safety	
500 Osleroek Larie, Suite E	
Summerville: BC 29485	
10.401.070.074	

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100	ct Name	Hanahan, SC	and Street		-	Date	9-17	-48		
DESCRIPTION OF EACH SAMPLE AREA								ASSESSMENT OF MATERIALS		
Arms	Semale 10	Location	Beneripten.	Printe (+)	Primble (-)	Antonomo Typo	COND	HAZ AAAA		
D	0	Exterior Siling	Transite Penel		Χ		7			
	25		12.1	 						
	⊃}			-	- /		_			
az_	DA		Sidna Felt	-	X.		7			
	05			-						
p }	c7	ا بيعليداليا	Wiston Gluzing	X			7			
	Θ,	Window 2	WIND BIRZING	 						
1	es.	Window ?								
øЦ	0	Window 1	Bxter Caulk		X		7			
	1	Deor"			-					
- 6	M	Dac 3	0.15	-						
<u>]C</u>	5	Extens Kept	Root Shingle	1	X		15)			
117										
0 1			Roof feltager	+-	Y		7			
u ų	17		THE PROPERTY OF	İ						
	18				/					
07	14		Brok Musty		Ã_		1)			
	U		(Sluck)							
	1211	3		1						
rii i	Turker System	servent Catesorius na Inaulaton - Goos Consition	Antenton Preparat (1) Amonte (2) Chrysolin			Assessed d Corpus				
195.7	Section Beater	ns treutston - Demeged ns tasutetus - Bigriscontly Demeged	(2) Crocatolite (3) Crocatolite (4) Anthophysite		B = Den					
194.0	and the last	ni Condition Imped referenced	[5] Tructofile				-			



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Project Name: 1902 Location: 1160 Gha	Howard Street			Date	9-1	7-18
Homes	IPTION OF EACH SAMPLE AREA			A	SSESSME MATERL	ENT NLB
	Description	Principle (+)	Private (-)	Antomias Type	COMS	HAZ
S S - Hand Vou	WIE WILL	- 18			7	
1241				i.		
20 35 Bulion H	Drywall	X			7	
57 1/						
10 18 Invaden 1	Totalonguel	X	\dashv			
159 K.161-	014.00	1	-		1	
30 Bedom				ļ		
31 Belian 2	2					
33 KILLING B						
# 34 Bedron 1 B	U		_			
131 Jest	(elling Paral	X			9	
37						
2 BF Kitchen AL	1 13 EINCLIA	X	-		7	
3 9	1 13 FINGETHE	11	+	-		
40	•					
<u> </u>						1
CONDICT ASSESSMENT CONDICTS	Astropica Propert	В	ZIZ A	Designation of	Catamories	
(4) Thermal Systems Institute - Generality (2) Thermal Systems Institute - Damages (3) Thermal Systems Institute - Digesteersty Da (4) Thermal Systems Institute - Digesteersty Da	(1) Advents (2) Chrysotle (3) Crossotts	0	- Good Co - Carnage	createn		
(4) Surfacing - Cond Condition (8) Surfacing - Connegued (6) Durbourg - Statistics by Connegue	(4) Astrophyths (5) Transfer		Algrida	ntly Dames	ed	



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LAcoline: 3-1 /- 1	and Street			Date	9-	19-18	
Mag Report III	EACH SAMPLE AREA			Â	ASSESSMENT OF MATERIALS		
Circles	Омограм	Prists (+)	Prisable (-)	Antonoton Type	COND	HAZ	
3 HZ KHAMA # CI	Andre		17	1,7,5	7	Access	
102	Floot tile mustre					-	
4 44 Kitchen ALZ	(ten)						
4 Knither ALZ	Kiny Sheet Flooring	1			7		
41 Gura 312	(Garalland)						
5 47 Kityen 1 3	The ropertie	,					
144	Viny/Shops Filling				7		
149 . 6	(CicyRed/Vila)		\dashv				
SO KITHE ALL	10	/	-		-		
5)	Viry Charl Elmin	-					
2	THE IN IN	-	-+				
5) Him fon ALI	Vhyl Sted Floring	7	+	-	- 		
Sylvin	(Blue Brick)		-				
(3)			_		-+	-	
St Living Roon ALI	VINI MELLE		7		7-1-		
60	(+gn)			+		-	
58				-	_	-1	
SA living RomA LI	Viny Greet Fluing	7		-	7		
60) E	(12 Clube)				-	-	
161 Kitchen B. CI	20001711						
SC (Carlo Address State), Francische Trugnar Systems Hacht dy - Groud Gendalen Treatres Systems interest en - Demagnet	Antestes Coverd	25	ZARO As	resument C	depris		
Permai Systems Insulation - Significantly Demograp Surfacing - Good Constitut	(2) Chryestie (3) Crockloile	D =	Good Co	1			
Perfecting - Descripted Purfecting - Significantly Chanaged	(4) Anthonytha (5) Tremotes	2 -	Significan	By Desruger			
Carried - Streetheasth Characterist				standed by D		4.	

TES	
Trident Environmental Services Consultants in Industrial Physician and Salely	
Surrinerella SC 29485	
(043) 873-3640	

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Trideset Brotromonahal Servines, ten. Consider to remain two family Project Narras: 5931 Howa		CHAII	N OF	CUS sbesto	TODY s Bulk	FORN Samples
Location Hankhan 5				Deb	× 9.1	9-14
DESCRIPTION OF	ASSESSMENT OF MATERIALS					
70 17 Budyman A 11	Description	(+)	Printers (+)	Antonias Type	CONO	HAZ
13	Viny Sheet F100/100	X			7	-
1.4	(7" Beize 59)	1				
:1 65 67	1	1				
66	Floor FAIL PARET		X		7	
17						
23 68 63						
[, 9,	Vinyl Sheet Place	4			7	
70	(brea / Biggiral					
3 71 04	namely					
77)	Viryl Sheet Floting	X			*)	
73	(bern Roul)					
4 74 Baleson 3 L 3	20MMHI					
75	Viny Shart Floren	X			1	
16	(Red Flowe)					
	vovigili				10	
5 77 LINIARON BLI	Viny Sheet Floring	1		1	1	
78	[Wast]					
V80 KitzenBII	COMETAL				-	
81 Although	11 Seif Stuk Cloochile					
92	(MUCHE)					
CHID TON Assessment Geography	III.					
1) Trajust by same Histories, Good Condition 2) Their of Bether Insulation - Danaged 3) Them By the Statellier - Eigniferedy Danaged 4) Serfacing - Good Cardina 5) Berlining - Danaged 1) Berlining - Danaged	Antonia Process (1) Amosto (2) Chrysoria (3) Crockindry (4) Antoninybyto (5) Transatia (8) Actionia	G = D = 6 =	Cont Cor Christian Cynitter	editors by Darrage	d	
plea Collected by Hunter	Hann					- C/
oles Received by: All The file	m,			/ Time:	9-19 3-20-15 20/16	

Trident Environmental Services, Inc.
Consultants in Industrial Propries and Solidy
200 Consultants (Capella)
Summercial Englands
(843) 873-3648

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Land State Control Con	10920 Ty CI	HAIN OF	CUSTODY FORM sheatoe Bulk Samples
	Conclusion Viryl Fleve Plank Cox Mary Red Many Market Floring Market Floring	Principle (-) (*) (*) (*)	ABBESSMENT OF MATERIALS Anterother COND MAZ Type Address
CONTROL Ambagasan Grands (3) Thereof Systems Southern Decorded (2) Strategy Gaze Condition (2) Strategy Gaze Condition (2) Strategy Decorded (2) Stra	Andreston Properti (1) Annosite (2) Crystolio (3) Crestotio (4) Antrophytis (5) Trendotio (3) Antrophytis (5) Trendotio	0 = Clead Com D = Demaged S = Significant LPO = Law Pot	